MBER
51

AMERICAN RIFLEMAN

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George F Steeg
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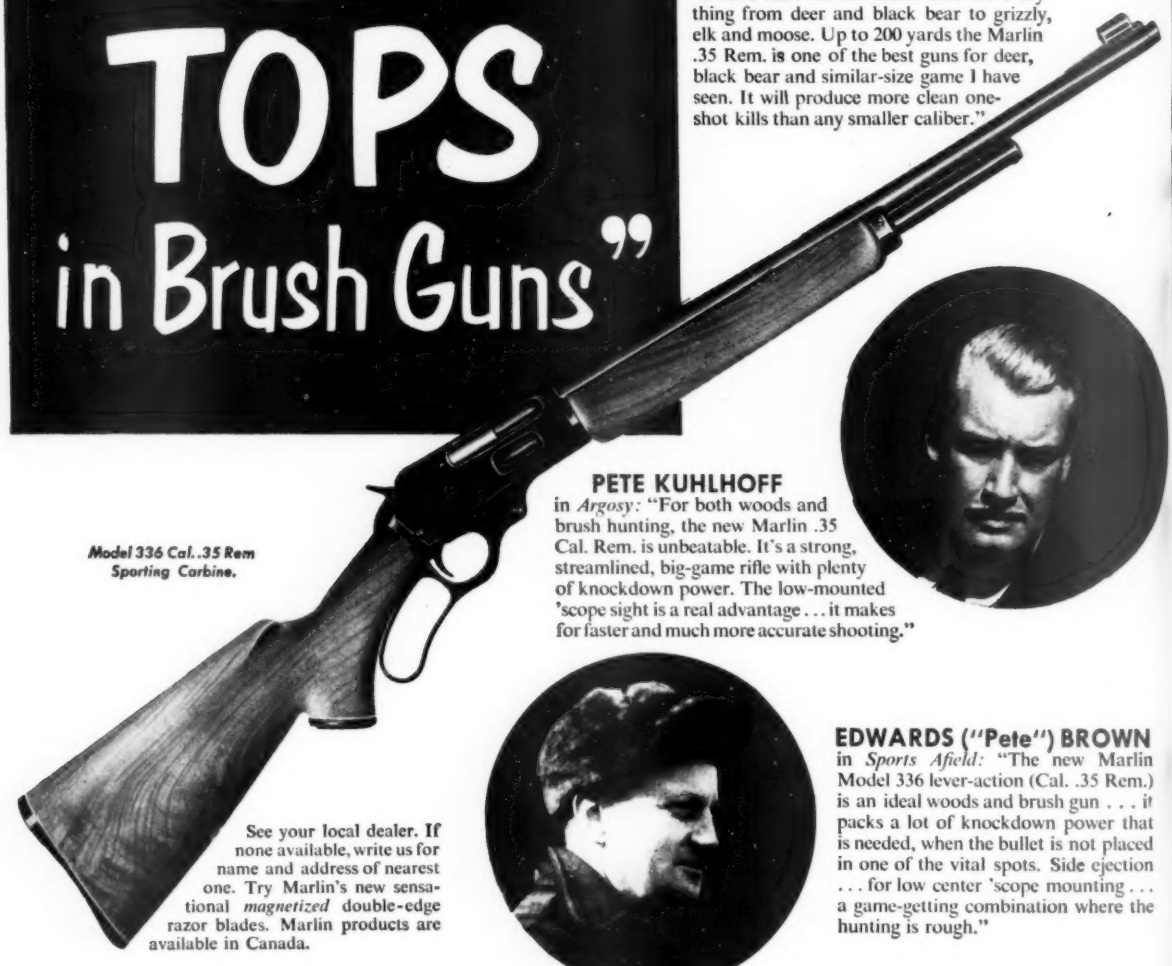
AMERICA'S TOP GUN EDITORS say "Marlin CAL. .35 REM. TOPS in Brush Guns"

ELMER KEITH in *American Rifleman:* "I have seen the .35 Rem. used on everything from deer and black bear to grizzly, elk and moose. Up to 200 yards the Marlin .35 Rem. is one of the best guns for deer, black bear and similar-size game I have seen. It will produce more clean one-shot kills than any smaller caliber."



Model 336 Cal. .35 Rem Sporting Carbine.

PETE KUHLHOFF in *Argosy:* "For both woods and brush hunting, the new Marlin .35 Cal. Rem. is unbeatable. It's a strong, streamlined, big-game rifle with plenty of knockdown power. The low-mounted 'scope sight is a real advantage . . . it makes for faster and much more accurate shooting."

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. . . **EXCLUSIVE** SLIDE-TUBE SUN SHADE

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DAVE BUSHNELL says,

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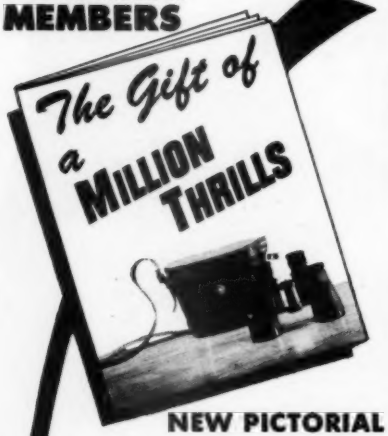
TO N.R.A. MEMBERS



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AMERICAN RIFLEMAN

The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

Official Journal of the NATIONAL RIFLE ASSOCIATION OF AMERICA

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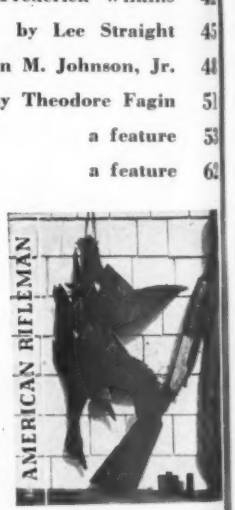
Vol. 99, No. 11 • **November 1951**

What Price National Security	an editorial	16
Gun Laws in England	by Wandrus and Hinchley	17
That .280 British Cartridge	by Phil Sharpe	21
1951 National Rifle and Pistol Matches	a report	22
Bird Hunting	by F. A. Dominy	28
Cradle That Stock	by Jennings B. Rader	32
Abercrombie and Fitch	photographs by Sid Latham	33
A .38 Special Auto	by Col. A. M. Libasci	39
Color Blind Hunters	by Dr. W. Schweisheimer	41
Care and Cleaning of Antique Guns	by Frederick Wilkins	42
What Caliber for Moose?	by Lee Straight	45
What About the '94?	by Melvin M. Johnson, Jr.	48
One Way To Do It	by Theodore Fagin	51
Spotting Scope	a feature	53
Dope Bag	a feature	62



COVER

Robert Holland's color photograph on the cover pictures the essentials for a good day's activity. The shotgun, a 12-gauge Woodward handmade in London, is one of the best of modern shotguns.

* NRA Staff in the Service

John Scofield J. S. Rose M. D. Waite
T. W. Child Claude Petrone

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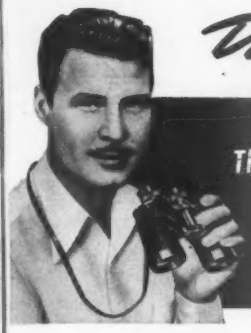

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Finest Binoculars!

Give a "Front Row Seat" for Life!

FREE!
24 Karat Gold Name Imprinted on Leather Case

YOUR NAME

ssh...shh!! WHAT WOMEN SHOULD KNOW ABOUT MEN!

I'm writing this month "strictly for the ladies"!

Men, I advise you to stop reading right here. This won't interest you in the slightest.

Well, ladies, now that we're alone, let me give you the low-down. I know you have trouble choosing Christmas presents for that big he-man in your life! Perhaps he's your husband, that favorite "big" brother, or maybe we're talking about "Pop," the biggest he-man on your list. And please don't forget the boy-friend.

With Christmas short weeks away, why not plan on a gift to be remembered – a gift packed with an eternity of happy use?

That's impossible, you say. No one can pick the gift of a lifetime – especially for a big he-man.

Want to bet that I can't prove it? OK, it's a bet.

Does your man hunt? Is he a fisherman, a nature lover, a sportsman who loves stadium games, an enthusiast who enjoys everything about the outdoors?

Whether he hunts big game or small, wouldn't you like to make his outings more successful? Wouldn't you love to open new wonderlands to him?

You can do it – and easy, too.

How? Just buy him a pair of precision Bushnell binoculars.

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Not at all; anyone – absolutely anyone – can afford a pair of triple-tested Bushnell binoculars. Prices start at $17.95*, and they can be purchased on convenient terms.

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If you want to give absolutely the finest obtainable, I'd suggest the 7x35 extra wide-field binocular at $125.00* Our professional binocular consultants, guides, game rangers, and hunters tell us it's incomparable at any price.

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Order from the coupon, now

Shall we send them airmail for your own pre-Christmas testing?

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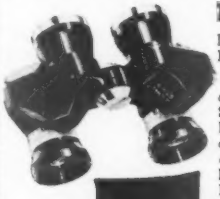

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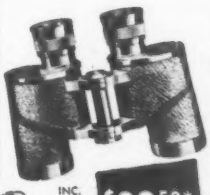

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7-shot, clip type
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Carelessness can destroy timber, game, property and human lives. Snuff out matches and smokes. Quench fire embers carefully. Experienced hunters: please caution novices.
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InCidenTa/Ly

When attorney William C. Marshall, working on the lawn of his home in Newton Falls, Ohio, heard gunfire, and bullets whizzed past his ears and smacked into a tree nearby, he was startled. Living on the edge of town, he was used to hearing guns fired near his home, but this was too close. Hurrying to the river nearby, Marshall found several boys shooting at a target they had stuck up without considering where the bullets fired at it would land.

If the boys wanted to shoot, Marshall wondered, why not see that they get a place to shoot and proper instruction in shooting. After talking about the idea to R. E. Shaw, a chemist with wide experience in training boys in athletics, the two men asked the Newton Falls Fish and Game Association to sponsor a boy's rifle club.

All local boys with rifles who were interested in forming a rifle club were invited to attend an organizational meeting. Though only six attended, that group was given a lease, free of charge, on the sand pits on A. B. Merrill's farm, west of the city. With the aid of Albert Capatch and his bulldozer, the boys built a rifle range. Thirteen more boys attended the second meeting and formed the Newton Falls Junior Rifle Club, with an advisory committee of Marshall, Shaw, Mayor Joseph Sosnicki, and Rollo Brannon of Newton Falls, and obtained a charter from the NRA. Today the club has 35 members.

Rifle clubs provide a means for parent organizations to teach safe and accurate shooting to youngsters. While the majority of NRA junior rifle clubs do not begin with bullets whining by the head of an attorney, the action taken by Mr. Marshall and Mr. Shaw to provide the youngsters of their town with a place to shoot and marksmanship instruction is becoming increasingly common. Not only is it being done by local organizations but by statewide groups as well. The Pennsylvania state conservation department has adopted the NRA Junior Ranger program to aid in inculcating safe and sane gun practices in youngsters. The Department of Colorado, V.F.W., sponsors a state championship junior rifle match, offering an extensive list of prizes for the best marksmen. In Texas the 4-H clubs provide marksmanship training programs for youngsters under the age of 18; in Kentucky, the Conservation commission; in Michigan, the United Conservation clubs.

The NRA has a complete program of shooting for juniors. Individuals may, of course, join and fire for medals awarded for equalling an established score over the 50-foot course of fire. Generally, however, juniors join and participate as members of either a junior rifle patrol or club. A patrol may be formed with from three to ten members and an adult sponsor, who may fire for awards along with the juniors. Clubs are composed of ten or more junior shooters and a sponsoring adult individual, committee, or organization. The NRA has an instructor's course which an adult sponsor may take, receiving certification as a rifle instructor upon completion of it. Besides qualification firing, which may be done at any time during the year, the NRA conducts a postal match for junior teams from November to February. On April 26, 1952, Junior Sectional Tournaments will be held in localities throughout the nation—sixty last year—to determine NRA junior champions. The courses of fire in all of these events is 50-feet prone, with those organizations which elect to do so firing prone and standing. All firing is done with .22 caliber rifles.

Any adult or organization interested in youngsters can obtain complete information on the formation of a junior patrol or club. And if he acts quickly in forming it, members may be entered in the junior postal matches, the first of which must be fired and targets returned to NRA office prior to the end of this month.

.JH

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AMERICAN RIFLEMAN—They recently thoroughly tested three of our quality binoculars under average field conditions and report "Featherweight—the optics are very good —moderately priced—will serve general purposes—a good buy for the money, etc."

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AMERICAN LEGION—Magazine describing a UNITED binocular wrote "Now you can get close-up views of sports events, wild life, etc. Thanks to radically different design, etc., offered by UNITED, Chicago."

HUNTING & FISHING—First, their publisher, Mr. L. F. McClure, tried our 7X Vest Pocket binoculars and immediately liked them. Then Jim Mitchell, Editor, wrote "On my trip west I found the ranchers were greatly impressed with your 7x35."

SPORTS AFIELD—"Colonel Townsend Whelen, our camping editor, thinks very highly of your binocular. It so happens he has a ready query on them and we are using his favorable reply in his department."

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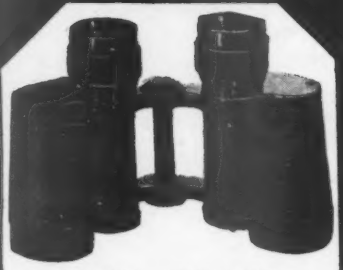
Powerful, precision made glasses. Moisture-dust proofed. Achromatic lens. Individual eye focusing. Superb glasses of quality construction. Fine leather case, straps.



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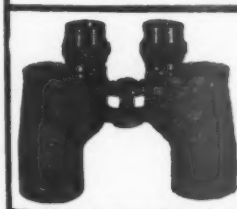

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Superb Quality! Streamlined. Individual Focus. Lightweight. Compact. Moisture-Dust proofed. 23 oz.! Leather case, straps.

SAME MODEL—CENTER FOCUS Individually Focusing Right Eye

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7x40	52.50
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Coated Weighs 24 oz.!

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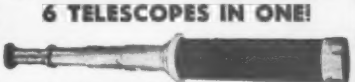

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American (Wollensack) Instant focusing at 15x, 20x, 30x, 40x. Turn power tube to click—no guess work. Measures 8¼" closed, 27" extended. Rust proof chrome tubes. Objective lens 40mm! All 12 optic surfaces COATED! See .22 bullet holes at 300 ft., also astronomical observations. $30.75 price includes tax.

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7x35

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says Scott McGill,
prominent Rancher-Sportsman,
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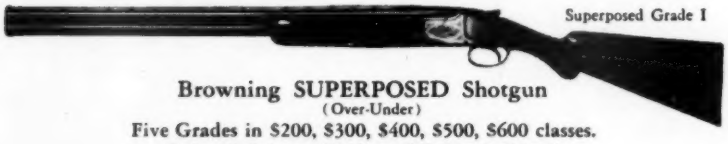

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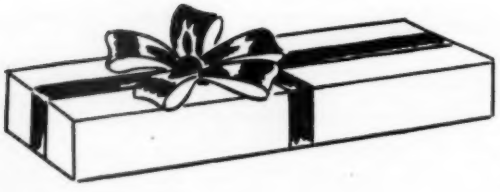

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Ricochets . . .

AL BARR

Westcliffe, Colorado

Editor:

It was a real shock to read of the death of Al Barr.

I did not know Mr. Barr personally, but I have so much enjoyed his many writings in the RIFLEMAN and learned so much from them that I had come to rely on them and to admire him a good deal more than I knew.

EARL CRESS

New York, New York

Editor:

. . . his passing will be a great loss because of the space in shooter esteem which Al held.

WARREN PAGE

Middlefield, Conn.

Editor:

. . . Al always had the handloaders and 'gun bugs' at heart each day in his work. . . .

CHARLES E. LYMAN, 3RD

Englewood, Colorado

Editor:

It's the little guys like myself, the amateur, the beginner, that . . . will miss Mr. Barr more than anyone else.

PHILLIP W. NIPPEN

Danville, Kentucky

Editor:

It is strange to feel so keen a sense of loss on the passing of a man you never saw . . . he has been my mentor over the years. . . .

JULIAN GENTRY

Santa Monica, California

Editor:

. . . A single test Al made in pressure testing the .30 WCF cartridge with 40 grains (full case) of No. 4350 had, I think, more influence upon modern loading than any other single test . . . because of the analogy with larger and more modern cases. It was thus that he merely presented the idea that we need slower burning powders for big cases, and set us to experiment on our own. . . .

ROBERT HUTTON

Marfa, Texas

Editor:

. . . He was virtually a walking encyclopedia of gun and loading information. The information he has given me from time to time has been of great value, and I realize that I am only one of many hundreds. . . .

LEON P. FISHER

Los Angeles, California

Editor:

. . . A great loss . . . a warm-hearted and generous friend who quietly maintained a high standard of personal honesty and integrity.

WILLIAM H. CORSON

(Continued on page 10)

Another

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Leading Medical School bought them for research work in Alaska in conjunction with the U. S. Navy. After testing they bought two more pairs.

Dr. W.B.P., Arizona, "I bought one of your small glasses recently and IT IS TOPS. Please rush one pair binoculars (indicated) as I want it for my Dad for Father's Day."

W.D.H., Virginia, "Tickled to death. Plenty strong. Fit in any pocket."

Judge I.A.H., Fla., "Binoculars purchased from you are OK in every respect."

D.M., Washington, "Am well pleased with these binocu[illegible] and my friends are amazed at their power."

EXPERTS LIKE THEM

American Rifleman—Dope Bag Section, "Tested a 6 Power Binocular for $19.50 (regular price) by UNITED, Chicago. Neat, attractive, stoutly made, gives a good clear image and a good glass for the money, etc."

Sports Afield, Arms Editor, "I was quite surprised to find how good they were compared to what you would expect from glasses this small and this light." Lt. Col. Jim Crossman.

Outdoor Sportsman, Editor, "My personal examination of the binoculars convinced me that it is truly a revolutionary item in the sportsman's world. It is really a "Magic" binocular."

Liberty Magazine, "VEST POCKET EYES. Smaller than a pack of cigarettes. Powerful binoculars with lightweight metal bodies. Adjustable to individual eye widths. Moisture and dust proof, etc."

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(Continued from page 8)

HUNTING ACCIDENTS

Napa, California

Editor:

It is to the credit of the RIFLEMAN that some responsible agency is at last beginning to take cognizance of the increasing number of hunting accidents and attempting to do something about the problem.

BILL MCCANDLASS

REVOLVER VS. AUTOMATIC

Gainesville, Texas

Editor:

"Revolver vs. Automatic Pistol" (October, page 40) was a well written story, and interesting, but I believe it should have been in the fiction department.

All automatic cartridges use bullets of low sectional density and they penetrate without expanding. Reloaded cartridges are seldom equal to factory fodder, and never superior. Even the best automatics such as the Super .38 and .45 lack the killing power of equal caliber revolvers. Most all the top-notch handgunners use revolvers. No automatic ever made can compare with the .357 Magnum with factory loads, or the .44 Special with hot handloads.

JEFF STROUD

Roswell, New Mexico

Editor:

At present, I am equipped with one revolver and one automatic. I am going to sell the automatic and get another revolver. I'll carry two six-shooters. That makes 12 shots of firepower. Then when my opponent with the automatic is fumbling with cold, cold fingers, trying to put another clip in his dependable automatic, I'll whip out my other sixgun and mow him down.

TIM MAXWELL

Hedley, Texas

Editor:

How about presenting the right side of the picture? If Hutton's arguments are correct, then the .30 M1 Carbine is the ideal big game rifle. It's light, easily carried, handy, has long fire power. Why use expanding bullets in a sluggish, heavy bolt action?

BRUCE STEWART, JR.

Los Angeles, California

Editor:

I am amused with Gerald L. Hutton's praise for the PP model Walthers. It is a cute little gun but not much use for police work. They jam regularly about the third or fourth shot. German police nowadays, in all four sectors, use other sidearms, including the .280 Enfield revolver.

Many police departments would use the automatic if some company in this country would make such a weapon in .38 Special with the double-action feature. A gun of this type would have to shoot like a target revolver. Police today can't carry the automatic because it doesn't always go off the first shot.

HENRY D. REIB, JR.

(Continued on page 12)

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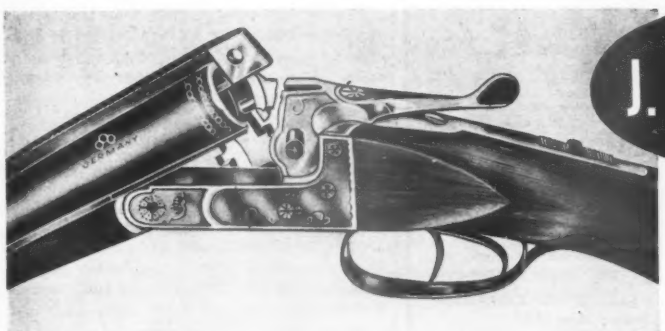

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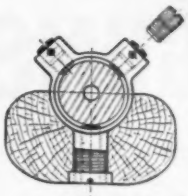

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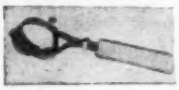

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LEWISTON, IDAHO

(Continued from page 10)

JOINING PISTOL GRIPS

Indiana, Pennsylvania

Editor:

On page 34 of the October RIFLEMAN you have an article on making your own pistol stocks. In the second instruction you have the sentence "Plane the inner surfaces so the edges will match when joined." That instruction will drive the amateur woodworker to an early grave as it is one of the hardest things to do, and get a perfect joint, that I know of.

The instruction should read, "After knocking the saw fuzz off with a plane lay a full sheet of medium sandpaper on a surface which is flat and smooth. Rub your blocks on it with the grain, finish on fine sandpaper and you will get a perfect joint between your blocks which will make the finished job look professional."

That will get your perfect joint while the boy with the plane is still hopeful of having his finished block ½-inch thick.

JAMES W. MACK, JR.

Seattle, Washington

Editor:

I have had enough grief with the NRA's rapid-fire course to have become, in addition to a lot sadder, perhaps a little wiser as to what custom-built revolver grips should be and do. . . .

They must fit the shooter's hand, particularly at the web between the thumb and the trigger finger so that the gun will not change position in the shooter's hand due to recoil.

The second function . . . is that the grip should be proportioned at the top rear so that the thumb will lay naturally on the hammer spur in the most natural position for cocking the pistol for each successive shot. . . .

. . . if (a set of custom grips) does not meet the above two requirements it does not merit the time and materials. . . .

LOUIS H. PRINCE

HUNTING WHITETAIL

Newport, Rhode Island

Editor:

In my article, "Hunting The Whitetail", page 23, October issue, left column, seventh line, reads, "Such an area is a good place to still hunt at night if there is no moon."

My manuscript sentence reads, "Such an area is a good place to spend time still hunting particularly if there is no moon at night."

LEONARD L. MAINE

● *Apologies are due author Maine for editing into his excellent article a statement about still hunting at night which he did not make.—Ed.*

AFRICAN SEASON

On Safari in Kenya

Editor:

Hunting here has been tough this year. The excessive rains have made the grass grow to unusual lengths in the lion country, and have scattered the elephant all over the country. Mrs. Hopkins has just killed one that was forty miles away from the river.

That is quite a trek into a sand desert, even when most of the distance is done by car. One has to take lots of water with him and be certain that his transport is in first class condition for such a trip.

DON HOPKINS

There's One for Fun for You!

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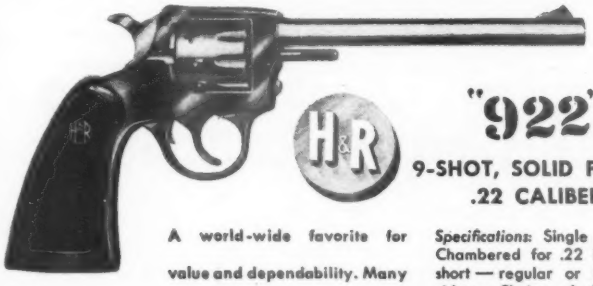

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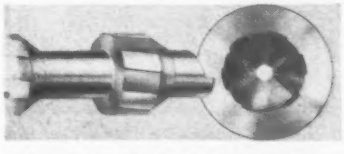

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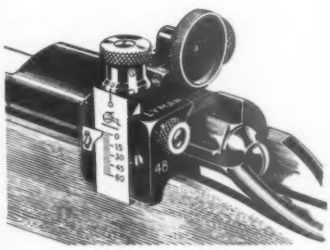

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48	WH	WINCHESTER: 70 Nat'l Match and Target Grade
48	F FH	WINCHESTER: 52. All models except flat top
48	J JH	WINCHESTER: 52 w/flat top receiver
48	RS	REMINGTON: 301, 30A, 30S ENFIELD: U.S. 1917, British 1917
48	M	MAUSER: All models except F.N.
48	M22	MAUSER: .22 caliber
48	FN	MAUSER: F.N. (Fabrique Nationale); Swedish Husqvarna
48	S	SPRINGFIELD: 1903
48	C	SPRINGFIELD: M1, M2, .22 cal., '03, .30 cal.
48	K	KRAG
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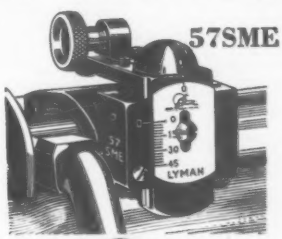
57	SME	SPRINGFIELD: M1, M2, .22 cal., '03, '06, .30 cal. MAUSER: 1898 ENFIELD: 1917 U.S. and British JAPANESE: Most models
57	WJS	WINCHESTER: 54, 70 REMINGTON: 721, 722
57	K	KRAG
57	A	WINCHESTER: 43
57	ES	WINCHESTER: 67, 68, 72, 74, 75 Sporter, 69A MARLIN: 80, 81
57	EW	WINCHESTER: 69, 69A (Round Receiver)
57	MS	MOSSBERG: All Models REMINGTON: 514 SAVAGE: 6, 7 STEVENS: Spg. 53R, 55R, 56R, 66R, 87, 76
57	RS	REMINGTON: 33, 34, 341A, 41A, 510, 511, 512, 513S, 521, 550
57	SA	SAVAGE: 99
57	SS	SAVAGE: 19, 19-33, 23AA, 23B, 23C, 23D STEVENS: 419 NRA

57SME



56A

56 SIGHTS

SIGHT NO.	SYMBOL	USED ON THESE RIFLES
56	A	WINCHESTER: 86, 87, 92, 94, 53, 55, 64, 65, 71
56	LA	MARLIN: 336
56	MA	WINCHESTER: 05, 07, 10
56	MB	WINCHESTER: 03, 63 MARLIN: 93, 94, 36
56	MC	MARLIN: 39, 39A
56	R12	WINCHESTER: 61; REMINGTON: 12, 121 SAVAGE: 29; STEVENS: 75

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MIDDLEFIELD, CONN.

WHAT PRICE NATIONAL SECURITY?

BILLIONS of dollars for planes, bombs, and 'secret weapons', but not one cent for ammunition with which to teach the youth of this country how to shoot! That, in plain language, is the attitude of the Department of Defense, the Bureau of the Budget, and the Congress of the United States toward the most basic element of national security.

At the beginning of this year the Director of Civilian Marksmanship requested that $370,741 be appropriated for the National Board for the Promotion of Rifle Practice in order that it might carry out its statutory functions in fiscal year 1952. By the time the Department of Defense and the Bureau of the Budget had finished with it, the $370,741 had been reduced to $130,000, the amount finally appropriated by Congress.

Compared to the almost universal increases in every other item within the appropriation, the sum of $130,000 is $30,000 less than was appropriated for the National Board for 1951 and $141,222 less than for fiscal year 1950. The most glaring omission was the failure of Congress to make any funds whatsoever available for the issue of .22 caliber ammunition to junior rifle clubs for marksmanship training. In spite of appeals by the Director of Civilian Marksmanship, the Executive Committee of the National Board, and representatives of the National Rifle Association, Congress refused to add one penny for this purpose. This may well sound the death knell to an activity that is essential to the safety of this country.

$96,000 was all that was needed to carry on this project for 1952; $96,000 for the purpose of teaching your sons and your grandsons how to use the weapons with which they must defend themselves if ever they are called to serve their country in time of war! Billions of dollars were added by the Senate to the billions appropriated by the House, but not one cent could be found for the most basic element of national security. Billions of dollars for national defense, but only $130,000 for the sole Federal agency responsible for the encouragement of rifle practice throughout the United States. Unbelievable—but true, nonetheless!

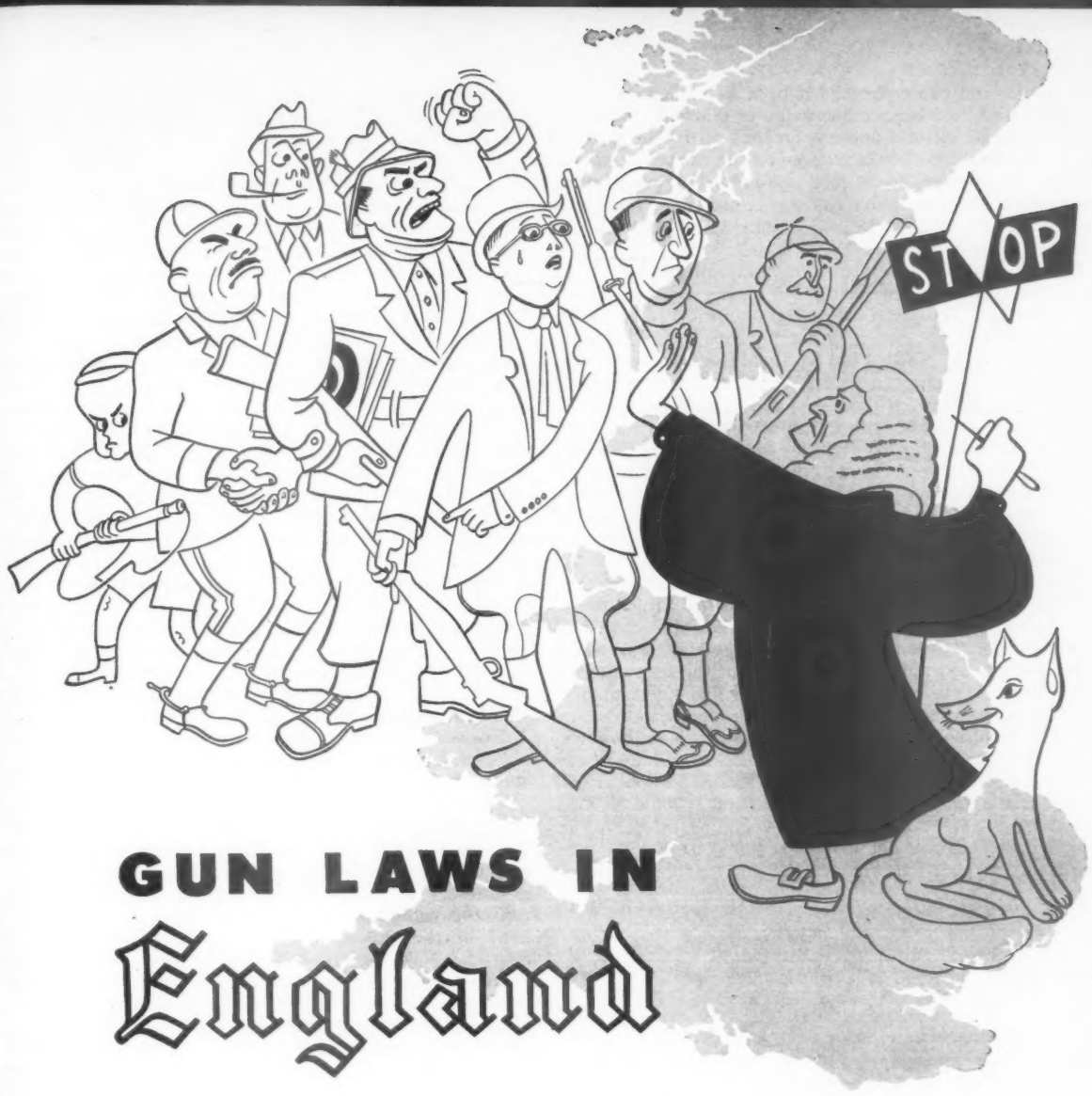
The National Board does not exist, as too m people think it does, solely for the promotio the National Matches. Instead, it is charge law with the "establishment and maintenanc indoor and outdoor rifle ranges under such a prehensive plan as will ultimately result in pr ing adequate facilities for rifle practice in all tions of the country . . . to encourage indoor tice in armories, shooting halls and other place and to create a public sentiment in respect t necessity of rifle practice as a means of nat defense." Obviously, it cannot begin to do things with only $130,000.

Regardless of the atom bomb, guided mis mechanized units, and all the tools of modern fare, the concluding act in war will continu be the contest between land armies and the p of rifleman against rifleman. The new wea guarantee the total aspect of World War Strategic bombing, the armored break-through airborne assault, the widespread organizatio subversive groups and guerrilla forces will b the battle to the homeland just as surely as t front line of previous wars. Civilians as we men in uniform must be taught how to sho we are to survive. This is the job of the Nat Board for the Promotion of Rifle Practice.

There is an old saying that "for the want nail the shoe was lost; for the want of a sho race was lost." The next war may possibly be because of the want of a little money to buy a ammunition to teach our young people ho shoot. What price national security then?

It was the National Rifle Association of Am which was responsible for the creation of the tional Board for Promotion of Rifle Practice. the National Rifle Association which should to it that the National Board is rejuvenated that it is given sufficient funds to carry out it It is up to the National Rifle Association to c a public sentiment among the people and Congress in respect to the necessity of rifle pr as a means of national defense. The time to this vital job is now!

Merritt A. Ed



GUN LAWS IN England

In letters to an American friend, an Englishman recounts the difficulties which confront the shooter in his country

By Harry Wandrus and Bernard T. Hinchley

WE AMERICANS frequently show amazement at the differences between life in the countries of Europe, an area much smaller than our own country, in which speech and modes of living are so amazingly similar.

Take the subject of gun laws, for example. Firearms laws are surprisingly uniform over the American nation, the Sullivan Law of New York City being one of the few which differs greatly from laws in other areas. Yet in Europe, great disparity exists between laws on firearms in one country and those of another. Under law in Switzerland every male citizen is issued a rifle and uses it regularly in the shooting club and the militia. In England law prohibits the owning and use of a weapon except under the most extreme conditions, and these are subject to the interpretation of those men whose duty is to enforce law.

England, once the country which led the shooting world in the production of firearms and in shooting, started on the road to restrictive firearms ownership in 1895 with the first proposal for a pistol bill, which did not, however, finally pass until 1903. The law of 1903 required a shooter to have an ordinary ten-shilling gun license (to carry a shotgun, rifle, etc.) before he could buy a pistol. A great deal of public indignation over the law resulted, but the indignation did not come soon enough—it is easier to pass a law than to repeal one. The war years of 1914-1918, with the struggles of the Irish for freedom, and the fact that arms used against the British by the Irish might conceivably be obtained in England, resulted in the control of firearms sale during that time by the military. It was not until 1920 that the first law with teeth in it appeared, and from that date the lot of the Eng-

lish shooter and gun collector has been an unhappy one.

The law of 1920 banned ownership or purchase of all rifled arms by private citizens unless a firearms certificate had been issued to him. The certificate specified the caliber of the gun and the ammunition for it (the certificate was necessary for purchase of the latter also) and was issued upon application to a police official. The 1920 act included all ball cartridges from .22 CB upwards.

In 1937 the present firearms law was introduced. It extended the 1920 law to include all handguns (shot pistols, blank cartridge, etc.) and all ball ammunition which might have escaped the provisions of the previous law. Under the 1937 law any police official can withhold issuance of a permit, though in theory one can protest by appealing to a clerk of the peace within twenty-one days since the law says "the police cannot reasonably refuse to issue certificates to anyone of good character who has facilities for using weapons either for sport or target practice or both, nor should they try to prevent a person from acquiring other weapons of different types or calibers to add to his armory providing he has reasons for needing them." The Bodkin committee report of January 1935 suggested that police constables have "regard to the fact that many persons may have a good reason to require certificates for . . . rifles (.22 target) and that the normal use of the rifle involves the expenditure of considerable quantities of ammunition." Despite these professions, it was found during the war just past that 99 percent of the men entering the service had never pressed a trigger and that sufficient time and weapons were lacking to train them properly.

Target shooting is still carried on in England however, though in a manner that would squelch the enthusiasm of any American smallbore shooter. Only such ammunition as will be shot at the range may be purchased and it *must* be fired so that none can be taken home. Depending on the whim of local police officials, one may be required to leave his rifle at the range. Appeals are frequently made for more ammunition for shooting at club ranges and they may or may not be heeded, again at official whim. Officials of rifle clubs, cadet corps, military and police units, and shooting gallery owners may purchase .22 rifles and ammunition for their organization without formalities, though individuals may not.

The only cartridges and arms exempted under the act of 1937 are smoothbore shotguns (20-inch barrel or over), 'spread shot' cartridges, air rifles and pistols and pellets. Pump guns, that is air guns, such as the pump or 'compression' types put out by Benjamin, Webley, and Sheridan, are not exempted. Strangely enough, silencers (in England 'sound moderators') are permitted, supposedly, and no mention is made in the act as such, however, police interpretation has made them 'parts of revolvers' and they thus fall under that part of the law requiring certificate for parts purchase.

Our picture of the "sporting Englishman tramping through the jungles of distant parts of the Empire" is somewhat dampened when we learn that only the possession of a firearms certificate permits him to take his hunting weapons to other parts of the Empire. Upon arrival at such places, the sportsman who brought along his rifle in order to hunt may be required to deposit the arm in the hands of the customs official until an import permit has been issued. It can be seen that personal influence can play a great part in the issuance of an import permit, and for those without influence it is often well to purchase his firearms at the place of hunting—a practice carried on by many. In most crown colonies, .30 service rifles and ammunition are not permitted except for service rifle competitions.

Registration of the serial number is not required at the time of application in England, but it is obtained by one means or another later on.

There is no ban on collecting antique firearms—antique being interpreted to mean all arms before the percussion period and including. Some of the early cartridge types, such as the Slocum and Moore, may be exempted at times. The government has sold old Sniders and Martini-Henry rifles to collectors without ado, only to find that these arms were taken away by the local police because no certificates had been issued. A collector of pistols must have his firearms certificate altered to own additional guns. A dealer's license is difficult to obtain, but it permits an unusual amount of freedom and allows the owner to purchase arms without police permission. They are obtainable for five pounds and are renewed for one pound. Ostensibly, the large collections in England, such as the tremendous collection of the late Major Brown of London part of which is being sold in the United States at present, have firearms certificates.

But why go on—let us look at the British law on firearms through the eyes of a gun loving citizen, Bernard T. Hinchley who has supplied most of the information given above. The following excerpts are from letters received from Hinchley during the past two years.—H. W.

January 7, 1949

. . . As a topic of more mutual interest, from recent RIFLEMAN editorials, may I make some comments on English anti-gun laws. At risk of appearing over-blunt, I'll say that the average American shooter has no idea of just what these restrictions entail. For brevity I will list a few facts:

1) For any weapon firing a ball cartridge from a rifle barrel or for any powder-firing handgun, a Firearms Certificate (or more accurately, Permit) must be applied for from the police before such arms can be bought. These permits are 32-page pocket booklets.

2) Not a single round of BB rimfire ammunition, or a Cap cap, can be purchased without production of this Firearms Certificate, which the dealer has to examine to make sure the customer is not buying more cartridges than he is authorized

to; and the details of the sale with date, maker's name, etc., have to be entered in the Firearms Certificate together with the dealer's police registration number. The Firearms Certificate only lasts for three years, after which it is subject to renewal for a further similar period. If the chief of police does not consent to renew it, the shooter has to meekly turn in his gun, or sell it at give-away price to a dealer. The price for Lugers sold in this way after the Home Guard disarmed was sometimes five shillings (less than $1.25).

3) The average citizen does not stand a cat's chance in Hades of getting a handgun of *any* kind—even an air-pistol has to have a carrying license—and if a club shooter gets a permit to buy a pistol or a .22 rifle for target shooting, the Chief of Police usually enters (in the "Conditions under which the Certificate is Held" column) "to be used only on an authorized range." The purchase of ammunition is often forbidden on such Firearms Certificates, all cartridges used must be bought *only* on the range, and no ammunition to be taken home.

Such is a brief picture of the shooter's England—the perfect police-state of gun legislation. One further quote: last week a new member of our club applied for a Firearms Certificate for a Webley single-shot .22 pistol. He was an army veteran, but since the age of 7, when he was orphaned, had lived with his grandparents. *Therefore he was a lodger*. So, he was forbidden to keep the pistol at his 'place of residence', and was ordered to keep it only at the range. The club secretary has taken the matter up with the police.

May I say it once more—You shooters over there can never afford to relax the fight for your gun freedom for a single instant, or to let any attempt at registration of any weapon get by.

February 15, 1949

A local paper, circulating over Birmingham and parts of the Midlands, some weeks ago came to me for information on the Gun Trade and addresses of old-time craftsmen; I bargained that I should like them to publish a 'controversial topic' letter, at a later date, on gun legislation. I'd have given them any information I could anyway, as the more publicity there is for the non-violent side of firearms the better; still they were as good as their word and printed my tirade under the headline of its own. Only one sentence was censored, in which I suggested that those in favor of such laws should be the first to be sent to the firing line in time of war, to see the truth of the bland assertion that "the Army can soon train civilians as riflemen, when the need arises." The paper is very interested in provoking any controversial opinions among its readers, but no replies have come in yet from the other side. I don't think that any will; but I expect that a cutting of the article will have been added to my already heavy dossier at police headquarters, as a further black mark for possible future use.

March 5, 1949

That chap I mentioned, the new member of our rifle and pistol club who was ordered to keep his single-shot .22 pistol at the range, not at home, still has got no satisfaction from the police; nor so far has the club managed to get anything done. Organized shooting in this country is at the lowest ebb to which the game can be degraded; we started in the highest hopes—back in 1860!—with the establishment of our NRA. The Volunteers and civilian shooters of those days had the finest-quality rifles, with refinements of sighting which could teach some of our modern sight-makers something, and no restrictions, either on the carrying or use of their arms. (Both today are restricted by every impediment of the law.) Barrel-makers took out many patents during those wicked days of gun-freedom, and shooters generally were fondly deluded into thinking that the status of the military long rifle would soon attain to that once held by the English long

bow—the poor, short-sighted dimwits. It is a fact that rifle shooting here has never had anything more than the most disinterested official assistance; since 1870, the Gun Trade could have gone to pot for all the interest the government ever took in it; the 1870 Franco-German War being the last major conflict in which the ordinary sporting Trade could participate with all-out production. After that date the making of military arms became the monopoly, outside the government establishments, of Birmingham combines such as the BSA—the only one now surviving. Had there been State encouragement of shooting here, and rifle ranges set up as frequently as cricket grounds and golf courses, etc., the importance of civilian marksmanship would have been so fully and firmly established in the popular mind that no anti-gun movements would have stood a chance. Further, our NRA was completely passive when the 1920 Act finally killed the game here. Compared with your NRA it is as dead as a duck—and English rifle shooting the same. With our old muzzle-loaders of the Age of Freedom—when a smallbore rifle meant a graceful little .45 military, firing 85 grains C & H Number 6 behind a 530-grain slug—we try to get back nostalgically to (just for a summer afternoon) that Victorian England of eighty years ago. Maybe it wasn't all sunshine in those days—far from it for some people—but just about everyone, then, could get a Saturday afternoon on the range if he cared to join his local Volunteer corps.

There is currently a high-powered Government recruiting campaign to get vets of the late War to re-enlist in the present-day Volunteers, the Territorials as they are peculiarly called. So far it has failed by over fifty percent; though I am surprised that that number enlisted. The first act of any sensible government, in my biased opinion—would be first to repeal the present gun laws, *then* get going in the other direction with every kind of States assistance to shooting.

March 7, 1949

. . . It is, of course, very against the law even to have a solid chunk of lead in *any* gun, in this country, unless same gun is licensed, permitted, registered, etc., and of a caliber

recognized for use in ordinary club competition shooting. Possession of a muzzleloader rifle or revolver the police can do nothing about, except suggest that such really ought to be registered—and some sheep-minded collectors do so—but so far as loading a charge into such guns goes, they (by the magic and witchery of the British Law) are instantly converted into a 'firearm' and the owner, user, or carrier becomes fair game for the first cop who can catch up with him. "This is how it is in England"; *and* it all came about because of the indifference of our NRA and the ordinary shooter, and the fact that rifle shooting had become so second to shotgun shooting that the riflemen were unable to make any accountable protest. Another reason, rifle-shooting was by then practiced by the kind of shooters who, as a majority among their kind, could think of no other kind of marksmanship except firing at paper and hessian targets at fixed ranges, under fixed conditions, and with one centerfire caliber in one kind of rifle. I don't count the long-range merchants, who had special rifles and did some useful work with them so far as testing cartridges at extreme ranges went. Ordinary *civilian* rifle shooting here has never flourished as in the U. S.; though there are even today some lonely enough spots in this overpopulated island. In any case, it was not until 1920 that possession of rifles was bound up by the law. The English have apparently become since those days a lot of irresponsible and untrustworthy children, totally unfit to be allowed to handle a rifle until the stress of war makes such an outlawed thing desirable.

April 20, 1949

There have also been a number of ex-Home Guard .30-'06 Enfields (1917) being converted to sporting rifles—for export I need hardly say; the downtrodden and cowed English shooter would stand no chance of getting one on his 'breath ing permit' except possibly for range use, and then on for tin-can plugging; or more probably would be forbidde to have one at all, since the .30-'06 was not a club calib over here. It might have been thought that our governmen had learned a lesson after 1940; but not any sign of any reawa ening has appeared—in fact the very reverse. Restrictions her especially as regards handguns, are tighter than ever before and are openly intended to disarm the citizen, and deter thos who might have been contemplating applying for a permi Several collectors have said to me "but I'm not allowed t have a pistol, am I?" when the question of collecting breech loaders arose; and the same applies to rifles. I have been aske for my permit (a permit alone is not sufficient—every gu which the shooter may wish to acquire has to be entere *beforehand* in the permit, and the sale recorded by the dea er) in order to buy an old paper-cartridge Sharps, in London and a friend had to get an old Civil War Green Carbine o his permit before the War. In this last case I think that som dimwit had registered the gun, though, and so its subsequen movements had to be recorded. That ex-Army club shoote I mentioned, however, who had an entry in his permit for bidding him to keep his .22 single shot pistol at his place o residence (not home, since he was a lodger with his grand parents) has failed to get any redress. It is a pity that suc cases cannot be made known to every shooter in the U.S. since they go to show what can happen once any anti-gu laws of any kind get through. A blank cartridge pistol of an kind requires a permit to buy and to possess, also, in th country. This ruling came in with the 1937 Firearms Act The then Chief of Police in Birmingham, in the early day of the War, tried to get a ruling *(Continued on page 3*

the Belgian .280 automatic rifle

On July 9, 1951, a new light automatic rifle, known as the Fabrique Nationale .280, was demonstrated at Brasschaat, near Antwerp. The new weapon, of the same caliber as the new British rifle, is reported to be the result of four years development. The British .280 rifle was developed by Fabrique Nationale, also.

That .280 British Cartridge

By Phil Sharpe

FOR YEARS there has been a great deal of wind from across the Atlantic about the new super British automatic carbine cartridge variously called the .280, the .280/30, the .280/300, and the 7 mm. Short. Pictures of the new carbine have appeared in newspapers and magzines, but only vague information has been offered on the cartridge, its possibilities, and its ballistics. England wants the member nations of the North Atlantic Treaty Organization to adopt it, yet she refuses to give information.

When Tom Florich, who joins Bert Shav and myself annually for a week of shooting, located two of those mystic .280 British cartridges, hasty long distance conferences were held.

Tom went into conference with Seymour Griffin, of Griffin & Howe, and thus was born the fastest custom job ever turned out of their gun department. Thanks to Willy Schefold, the G&H barrelmaker, for his speedy cooperation. Willy used the two sample rounds, measured them, ground chambering reamers, chambered and fitted an FN 7 mm. bullgun barrel blank, mounted scope blocks, and otherwise turned out a complete, shootable rifle for us, including three forming dies for making cases—all in less than 48 hours.

So hush-hush is the .280 cartridge that the sample rounds had to be returned unfired, but only after they had been carefully analyzed. The cartridge has the head of the .30-'06, but with a slightly wider and deeper extractor groove since it was designed for a semi- and full auto weapon. One was headstamped "R G 48" (Radford Green) and caliber "280". The other was marked "R G 49 280/30". Berdan primers were used, the case length ran 43.5 mm., weight with primers were 155 and 157.5 grains.

Two different bullets were noted, one having a green tip. Both were spitzer with about a 10-caliber ogive and sharp point. Overall length of the loaded rounds was 64.4 mm. and 64.7 mm. Cartridge weight was 327 and 315 grains. The green-tip bullet had a soft steel core enclosed in a lead sleeve, length of bullet being 34 mm. and weight 140.5 grains. The other had a lead core, length 31.5 mm., and weight 132 grains. Both bullets were .285 inch in diameter. The heavier bullet was backed by a charge of 31.5 grains of nitrocellulose in unperforated rods, length .04 inch, diameter .025 inch. The lighter bullet used 30 grains of the same type of propellant.

We were told that the muzzle velocity of the lighter bullet in the .280 cartridge was bout 2565 feet per second. This would indicate an instrumental velocity of about 2500. Note this figure for comparison, later.

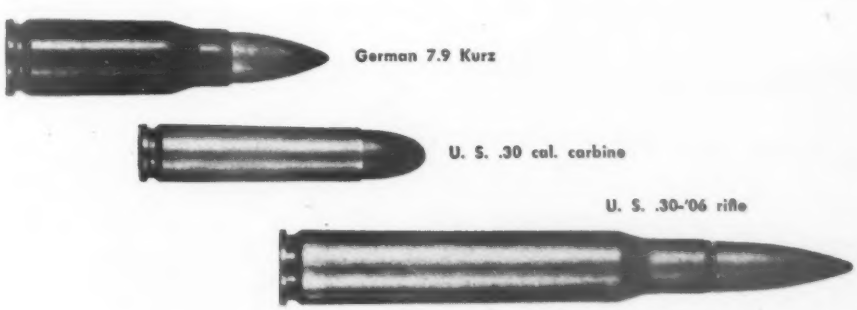
The short bottleneck case, poured full of 4895 and struck level without settling, held 40 grains. For comparison, a 1929 Frankford Arsenal .276 Pedersen case held 43.5 grains and a 7 mm. Mauser case held 56 grains.

Checking available brass, it was found that while the British case could be formed from the .300 Savage case, the latter brass was too thin and light. Strangely, .30-'06 brass, cut off and formed, with the surplus neck metal carefully reamed out, checked within a few grains of the British sample, indicating that the .280 round has an unusually sturdy case.

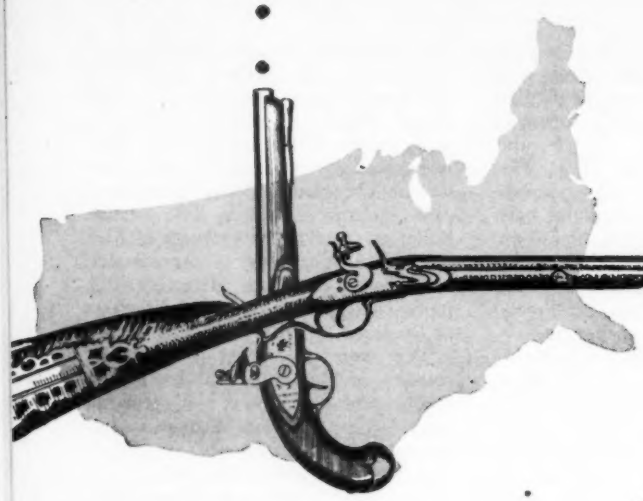
Exact reaming became a problem, but Bob Ditchburn of Gettysburg, Pennsylvania, my personal gunsmith, came to the rescue. On the phone Bert Shav told him exactly what was wanted, diameters of cutting reamer and pilot, and in a few hours Bob had the reamer. Hours later we had 180 nice looking cases, and Tom commented, "We're in business!"

In preparation, Bert had made, in his own dies, a batch of special bullets for the tests—both in 132 grains and 140 grains. Thus we had all of the ingredients except British powder and primers. All that was necessary was to find the right propellant, the right

(Continued on page 38)



Some information on the cartridge for the new British automatic rifle



1951 National Rifle and Pistol Matches

THE PRESSURE is heavy on a man firing in the national rifle and pistol matches. With competition as keen as any which may be had in the shooting world, a fellow wants every point he can get.

When Chief Petty Officer Leonard Rizzolla, USN, fired such a tight group in the .22 caliber slow fire event that the referee could only find nine holes, Rizzolla was livid. Noisily arguing that his tenth shot went in the target, Rizzolla suddenly realized that someone had put a microphone in front of his foaming face and he was broadcasting his troubles to the entire west coast over radio station KCBS.

Not all of the shooters who fired in the national high-power rifle, smallbore rifle, and pistol tournaments held in California from September 27 to October 6 this year, argued their scores to the California populace, but only because mikes weren't shoved in their faces. Competition was keen for the points, perhaps keener than in many previous years.

For the first time since 1940, the National Rifle Association staged the 'big three' of the U.S. shooting world. The national smallbore rifle matches were held in San Francisco, California, October 3 through 6. National Pistol and Revolver Matches were fired at the San Francisco Police Department Range from September 29 to October 6. Both pistol and smallbore championship matches have been held every year except 1950 since postwar competition was resumed.

The high-power national matches were held this year by the National Rifle Association, with the cooperation of the Marine Corps, for the first time since 1940. The Marines made the range at Camp Matthews, California, available for the big bore tournament and supplied personnel, and bunking and messing facilities for competitors from Sept. 27 to Sept. 30.

Two championships were determined at Camp Matthews. The NRA Match Rifle Championship, fired with any metallic sight rifle weighing less than ten pounds chambered for the .30-'06 cartridge and having a trigger pull of three pounds, was won by Tom Barnes of Billings, Montana, with 433-43V.

Second in the match, comprised of scores fired in the Navy, Scott, Marine Corps, and President's Matches, was D. B. Gingher of Monterey Park, California, down two V's from Barnes score. Third was Ray Ickes with 432.

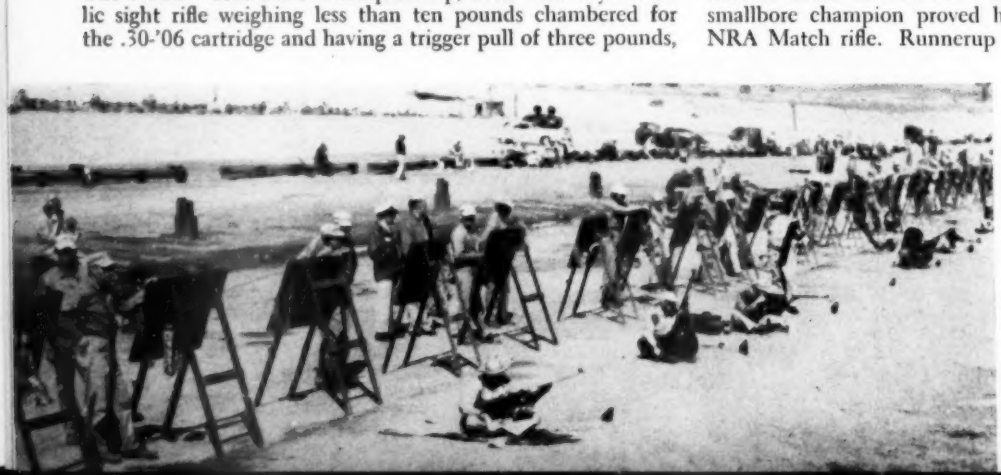
The Service Rifle National Championship, fired with the M1 Garand rifle, was taken by veteran Marine shooter Remy Delahunt, who fired 430-27V, barely nosing out Marine Morris Owens, Camp Pendleton, who wound up with an identical score but was outranked by 2 V's. Third place winner was Gay H. Lambert with 425-33V's.

The above two classes of rifles were provided in the Members Trophy Match, the Navy Cup Match, Marine Corps Cup Match, Scott Trophy Match, and President's Match. The Wimbledon Cup Match allowed .30-'06 NRA match rifles and special target rifles, any center-fire rifles not equipped with palm rest, Schuetzen buttplate or set trigger.

In the National Women's Championship, NRA Director Alice Bull of Seattle, Washington, led the field with 402.

Martin J. Hull of Orange, California, started off the high-power matches by winning the Members' Trophy Match with a scorching 100-16V's fired from a prone position at 600 yards. He broke the former record held by Elmer Shook of California by 1 V. Second with the NRA Match Rifle was E. D. Dyson of Boise, Idaho with 100-12V's who was followed in third place by the veteran Roy Meister of Seattle, Washington, who fired a 99-13V's. In the Service Rifle Division Russell J. Beilfuss of Camp Lejeune was first with a score of 99 with Clifford G. Tyron and Edward W. Norman running second and third with scores of 98 and 97-13V's.

In the Navy Cup Match with NRA rifle, Air Force Lieutenant Arthur Cook, of Washington, D. C., broke the previous record for the 200 yard offhand match by an unbelievable score of 99-13V. Thus, the diminutive Olympic smallbore champion proved he is also handy with the big NRA Match rifle. Runnerup was Roy Meister with a score



Marine Corps Camp Matthews was the scene of the first high-power national matches in eleven years

Major General William T. Clement, USMC, greets shooters at Camp Mathews, California, where the first national high-power matches in eleven years were fired this year. At left is General Merritt Edson (Ret.) NRA Executive Director. Col. Glenn C. Funk (right) was officer in charge of the matches

While Gloria Norton, national woman's pistol champion, looks on, NRA Executive Director M. A. Edson congratulates T/Sgt. Heulet Benner on the excellent score of 2629 Benner fired in winning the National Pistol and Revolver Championship

Lt. Arthur E. Cook, USAF, receives from Gen. Clement the Navy Cup for the record-breaking score of 99-13V he fired from standing position with a high-power rifle

Thomas R. Barnes receives the Scott Trophy award for his score of 100-18V in the 200-yard rapid fire match from Brigadier General Reginald Ridgely of Marine Corps' Camp Mathews

of 96-7V. Rounding out the top trio was Frank B. Simms of Sacramento with 96-3V.

Service rifle winner of the Navy Cup Match was M/Sgt. Maxin Beebe, a U.S. Marine from Camp Pendleton who won it with a 98-10V. Right behind him with 97-6V was Sgt. Lloyd Crow, who was closely followed by 2nd Lt. Remes Delahunt with 97-3V.

In the Marine Corps Match with NRA Rifle, Raymond W. Ickes, shooting son of "The Old Curmudgeon," tied the world record score fired by Hull in the Member's Match the day before to win with 100-16V. Ickes needed every V of the score too, as Arthur Krause of Los Angeles, California, was hard after him with 100-15V. Third was J. R. Moore of El Paso, Texas, with 100-10V.

In the Service Rifle class of the Marine Corps Cup Match three Marines took top honors. Gay H. Lambert of Camp Lejeune won the Leech cup for his first place score of 99, Clyde Sloan of Barstow, California, was second with 98, and Louie Painter of Camp Pendleton third with 97-11V.

The historic Wimbledon Cup Match, comprised of 20 shots at 1,000 yards prone, was won by Richard F. Hanson, an Air Force captain from Selfridge Field, Michigan, and

Martin Hull points to the rifle with which he won the 600-yard prone Member's Trophy Match by a score of 100-16V

Air Force Captain Richard F. Hanson won the 1,000-yard Wimbledon Match with 100-17V

Marine T/Sgt. Russell Beilfuss and M/Sgt. Clifford G. Tryon discuss scores which won them first and second places in the service rifle class of Member's Trophy Match

Emmett O. Swanson and Henry C. Wright, two experienced high-power rifle shooters, look over the M-1 service rifle, used this year for the first time in NRA national competition. Swanson won the Free Rifle match with 537-8V

USAF Lt. Arthur Jackson scored 148-15V to win the President's match

former coach of the University of Maryland rifle team, with 100-17V. Kenneth E. Rose of Chula Vista, California, took place money with 100-13V. Third was San Diego's Paul Dinant, world champion benchrest shooter, with 100-13V.

Service gun scores for the Wimbledon match were again shared by Marines. Frank S. Hoffman of Lejeune was first with 98-12V; Louie Painter, Pendleton, was second with 96-9V, and Gay Lambert of Lejeune third with 96-7V.

In the rapid-fire 200 yard Scott Trophy Match, Tom Barnes began to display the form which eventually won him the National Aggregate by shooting a new national record score of 100-18V. Second was the seasoned Elmer Shook, Wilmington, California, with 99-10V. T. C. Harper of Reno, Nevada, garnered 99-6V for third place.

Service Rifle winners in the Scott were Marine Robert M. Winter of San Diego, first with 98-2V; Marine Richard D. Cox of Lejeune, second with 97-8V; and Marine R. C. Cox of Barstow, third with 97-8V.

In the President's Match, with the entire field firing for the much-desired letter of commendation from President Truman, Lt. Arthur Jackson, USAF from Brooklyn, New York, great International shooter, took over, winning with a score of 198-15V. E. O. Franzen of Minneapolis, Minnesota, was in the second hole with 146-16V, and Emmet O. Swanson, Minneapolis dentist and one of the top riflemen of all time, finished third with 146-16V. In the Service Rifle division of this great match Morris C. Owen won with 145-11V, Lt. Remes Delahunt was second with 145-8V and Gay Lambert third with 144-12V.

In the International Aggregate experience paid off for old-timer Roy Meister, who won with a high score 386. Martin J. Hull fired the same score but was outranked, and third place went to J. R. Moore with 383.

In the famous Free Rifle Match fired under International shooting rules, Emmet O. Swanson of Minneapolis moved away from the pack with a score of 537-8V, with E. O. Franzen finishing in second place with 528-12X. Air Force Lt. Arthur C. Jackson placed third with 528-4X.

The celebrated National Trophy Individual Rifle Match was taken by likeable Marine Richard W. Boyer, of Camp Lejeune, North Carolina, with a score of 240. Thomas E. Heiser ran second with 238, and Jesse Davenport of Lejeune was third with 237.

The Smallbore Championships fired at San Francisco's municipally built Sharp Park Range was a huge success. Doctor George Parshall and his co-workers had the newly finished 125-point range dressed up for the national.

The San Francisco Rifle Association, co-sponsors of the

smallbore tournament with the California Rifle and Pistol Association turned on the sunshine for riflemen but couldn't control the fishtail wind, and many of the top wind-dopers in the country were unable to cope with it.

The one man who had no trouble with that fishtail breeze was Mason E. Kline, a University of California student. Not considered a serious contender for the smallbore title at the beginning of the tournament, the 23-year-old San Franciscan won the National Smallbore Rifle Championship against a field of the best shooters in the country with a score of 3178 points. Kline is a NRA junior rifle club graduate who fired in his first registered tournament in 1949. He shot a 1587 aggregate in the iron sight matches and 1591 in the any-sight matches to compile his winning score.

Second in the grand aggregate was Charles Cornish, Los Angeles, California, with 3174. Rounding out the first five places were C. R. Cater, of La Grande, Oregon, with 3173, L. E. Rentlinger, Eugene, Oregon, 3171, and William Schweitzer, Elizabeth, New Jersey, 3170.

Robert McMains, the defending champion, of Dallas, Texas, was never a contender and finished the two-day competition far down the list. Arthur Cook, winner of the Navy Cup in the high-power matches and present Olympic champion, finished eighth in the smallbore event with 3163.

The top five shooters in the smallbore iron-sight aggregate were Mason Kline, 1587, C. R. Cater, 1585-86X, L. E. Brentlinger, 1585-78X, Charles Cornish, 1582, Arthur Cook, 1578.

With the exception of Cornish, the top iron-sights winners did not figure in the first five any-sight places. William Schweitzer, Elizabeth, New Jersey, took honors with 1596, followed by Larry Moore, Aberdeen, Maryland, at 1594, Cornish, 1592-102X, Fred Dunkin, Los Angeles, 1592-100X, and W. E. Espersen, Mt. View, California, 1592-88X. Kline's 1591 placed him eighth.

Elinor Bell, of Santa Monica, California, won the national women's championship. The pretty brunette put a 1569 iron-sight aggregate with 1579 in the any-sight competition for a total of 3148. Another pretty Californian from Alameda, Ruth Tohill, finished second with 3130, followed by Neva Seagly, of Bristol, Indiana, with 3127.

Dale Brueggemann, of Wood River, Illinois, took the silverware in the Sharpshooter class of the smallbore championship with a grand aggregate total of 3158. A hard-shooting Canadian, L. C. Living from Vancouver, finished second with 3151, with W. E. Gilbertson, Travis Airbase, taking the show spot with 3144.

The Marksman class title went to Merrill D. Martin of Oakland, California, with a score of 3150. He was followed by Phillip Normington, San Jose, California, 3130, and Noel A. Gillespie, Madison, Wisconsin, 3115.

Eastern pistol shooters got a surprise when they arrived at the San Francisco Police Pistol Range at Lake Merced for the National Pistol and Revolver Tournament. This beautiful, smooth operating machine is probably the finest pistol range in the United States, and Emile Dutil, the officer who operates it for the San Francisco Police Department, lived up to his reputation of running a fast, well-planned tournament.

Western shooters also got quite a surprise when the Easterners opened up on them in the three-gun aggregate. Only one West Coast shooter, CWO Offutt Pinion, was able to withstand the onslaught enough to stay in the first ten when the smoke died down.

M/Sgt. Huelet "Joe" Benner, U.S. Army, of Fort Knox, Kentucky, as was anticipated, took command from the start, never losing an aggregate. He took the .22 caliber aggregate with a sizzling 887, two points over team-mate Lieutenant Colonel Tom Sharpe, both of whom broke the national record for the National Match Course with identical scores of 298. Reeves, who was destined to chase Benner for the next three days, never catching up with him, was third in the .22 caliber aggregate with 880. Benner, to get his 887 with the .22, put together scores of 192 slow-fire at 50 yards, 199 timed fire at 25 yards, 198 rapid fire at 25 yards, and a 298 over the National Match Course.

In the center-fire matches Benner posted an aggregate of 874. Reeves followed the champ in with a 871. After Benner took the center-fire aggregate, you could hear the 350 competitors at the championships saying "What's the use, just give him first place and we will shoot for what's left."

And Benner didn't disappoint his admirers with the .45.

The well-run pistol matches at the San Francisco Police Pistol range were, from all reports, a joy to shoot in

He again led the field with an 868, to compile a grand aggregate total of 2629 points. Reeves was second with 2614. Rounding out the first five were Walter Devine, Parris Island, South Carolina, with 2599, William W. McMillan, Quantico, Virginia, with 2588 and Thomas R. Mitchell, also of Quantico, with 2586.

Major Thurman Barrier, a hard-hitting Marine from Washington, D. C., won the coveted U.S. National Individual Pistol Match with a score of 285, with Huelet Benner right on his trail at 284. Ending in the third hole was Oscar Weinmeister of Fort Knox, Kentucky, with 279. In winning the National Pistol Match, Barrier fired 87 slow fire, 99 timed fire, and 99 rapid fire, which tied the previous mark set by Clarence Ward of Los Angeles Police.

A 'hard bullet' team of Marines composed of Lt. Col. Walter Walsh, Major Thurman Barrier, T/Sgt. Walter Devine and M/Sgt. J. Fowler won the famous U.S. National Team Match with a record-breaking score of 1088, the U.S. Army team placing second with 1075. The previous record of 1085 for the National Trophy Pistol Team match was set by the U.S. Marine Corps at Ft. Sheridan, Ill., in 1949.

In the three NRA team matches the U.S. Marines took a bad mauling. A surprisingly strong Army team moved into top place in the .22 National Match Course Team Match when O. K. Weinmeister, B. C. Curtis, Thomas Sharpe, and H. L. Benner fired a score of 1164. Second was U.S. Navy with 1162 and third was the U.S. Marines with 1161.

In the Center-fire Team Match, U.S. Army again led the field with a team composed of D. H. Thomas, L. G. Vause, F. D. Graham, and H. L. Benner firing a score of 1149. In the second slot was Detroit Police with 1144 and Los Angeles Police finished third with 1141.

The .45 National Match Course Team went to a newly formed, hard-hitting U.S. Navy team composed of Leonard Rizzolla, Offutt Pinion, Luther Yocum and "Bob" Chow, who threw together a team score of 1146 to win. Rizzolla was in the clean-up hole with 291. Second place went to U.S. Marines with 1138 and the U.S. Army was third with 1133.

In the National Women's Championship, popular Gloria Norton of Woodland, California, won the aggregate with a score of 2497, breaking the National .22 Slow-fire Women's Record with 193 and the Center-fire Woman's aggregate record with 863 in totaling it. Pretty nineteen-year-old Lucile Chambliss of Winterhaven, Florida, placed second in the aggregate with a score of 2466.

The Sharpshooter class grand aggregate was taken handily by Navy man Daniel Forsythe of Chula Vista, California, who fired a total of 2450. Robert Parrish reached second place with 2445, and Fred Rakow of the Air Force was third with 2434.

The Marksman shooters had their come—uppance when—Reynold Heau of Honolulu, Hawaii, arrived to take the grand aggregate with 2393. He was followed by Francis Bradley of Albuquerque, New Mexico, who finished with 2379, and John W. Steele of San Bruno, California, 2362 for third.

The strongest International Pistol Team ever to fire for the United States set up a new record of 1875 in the Mayleigh Cup Match. England won the Mayleigh Cup last year. The record-breaking 1875 brings the Cup back to the U.S., Great Britain having fired 1744 and Canada 1735 previously this year. Harry Reeves led the field with 193, followed by Huelet Benner, 191; E. R. Ferris, 190; Thomas Sharpe, 189; Basil Starkey, 188; Thomas Mitchell, 184; Frank Graham, 186; Offutt Pinion, 187; William McMillan, 185; and Presley Fell, 182. The 1951 International team officials were: Captain, Henry Jacobs of Woodland, Calif.; Adjutant, Malcolm Edwards, South Bend, Wash., and the official observer was NRA Executive Director Merritt A. Edson.

Yes, the pressure was on the boys who competed in the 1951 National Matches. When U.S. Navy shooter Bob Chow, a man with a very unorthodox stance, gets on the line in a .45 caliber match, his face gets grim and determined, and he humps over his gun like a hen pheasant over an egg. Bob assumed this determined stance at the beginning of the .45 caliber rapid fire match. But the pressure was on. As the chief range officer gave the command "Ready on the right," Bob fired his first shot through the bench. This, of course, held up the match temporarily and Harold Churchman of Los Angeles laid his gun down on the bench and solemnly shook hands with Bob, congratulating him on the steadiness of his aim—Bob's bullet had made a nipper ten on a small knot hole in the bench. When firing resumed, however, Churchman too began having troubles. He immediately got a jam and called for a refire. In shooting the refire, his automatic jammed again. Desperate as a liquor store bandit, Churchman tried to clear it. While Bob Chow watched in complete deadpan, Churchman jerked his slide open and as it sprang back into battery, his snapping finger was caught securely between the slide and the barrel. He spent the remainder of his ten seconds trying to extricate it. When Churchman got it out, Chow was waiting for him with a congratulatory handshake. ● ● ●

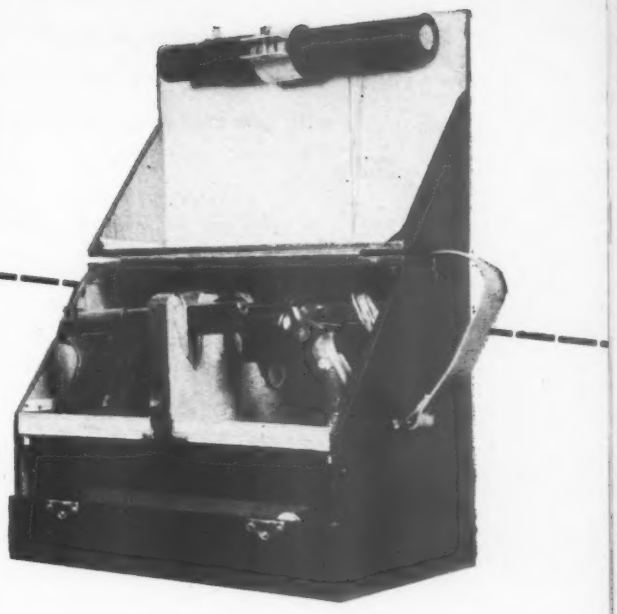
Lt. Raymond W. Ickes' 100-16V in the Marine Corps Match at the national high-power events earned him first place, by one V, over Arthur Krause of Los Angeles, California

Among the ladies who shot in the high-power rifle matches this year were Miralotte Ickes of Berkeley, California, Helen Orme-Johnson of El Paso, Texas, and Leone Ackerland of Seattle, Washington

BUILD

Your Own Pistol Kit

By William J. Thompson



THE DIMENSIONS of a roomy pistol case are: length, 16 inches; width, 10 inches; height, 12¼ inches. I recommend ¼-inch plywood and the plans are drawn for material of that thickness. If the builder prefers to use solid wood instead of plywood, I suggest a thickness of ⅜-inch mahogany, white pine, or poplar.

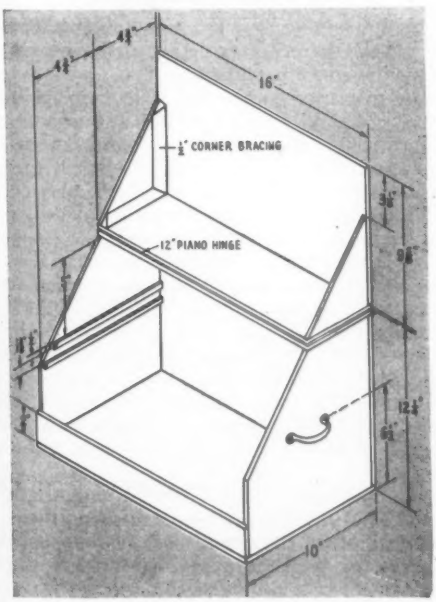
The materials are cut to the dimensions on the drawings. Before assembling the pieces it is best to nail them together temporarily to be sure that all joints fit properly. Do not nail in the corner strip while making the preliminary assembly. When all joints fit satisfactorily, final assembly can be undertaken. Glue will strengthen the joints. A cold water glue is suggested as it does not set as fast as a hot glue.

Sponge rubber of about ⅜-inch thickness is readily adaptable for lining the rack of the gun tray. It is glued inside the notches cut for the pistol barrels and covered with a binding tape to give a smooth surface. A covering for the tray can be glued on if desired. Green felt pool table cloth can be used to cover both the tray and the gun rack.

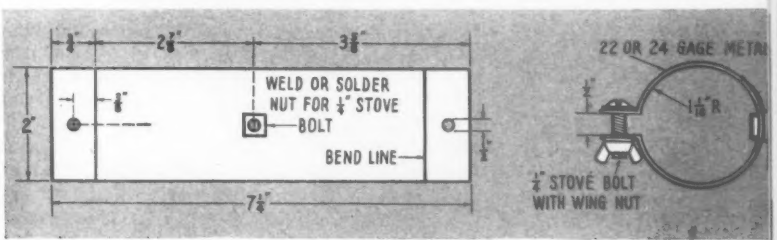
The scope mount, designed for a Mossberg Spot Shot, will take any scope with an outside diameter no larger than two inches. If a larger scope is used, it will be necessary to alter the dimensions of the two front pieces of the case. Be sure to swing an arc with a compass, using the hinge as the center, to see if the scope will clear the underside of the tray.

The scope mount is simple in design and does not require a machine shop to manufacture. I recommend 22 or 24 gage metal. Lay out the pattern on the sheet of metal, cut and drill as detailed, weld or solder on a nut for a ¼-inch stove bolt, bend each end to form lips for the adjusting screw to hold the scope, and then bend the metal to a circular section on a 1-1/16-inch radius. Three washers, two inside and one outside, are used on the stove bolt which attaches the mount to the case. ♦ ♦ ♦

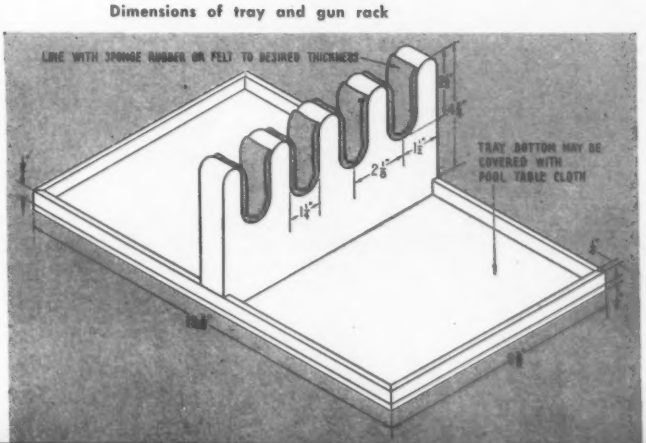
Dimensions of pistol kit with adequate space for four guns



Construction of spotting scope mount



Dimensions of tray and gun rack



Whether you call them quail or partridge, down yonder below Mason and Dixon's line folks who see you with gun and dog say you're just . . .

Bird Hunting

By F. A. Dominy

ADVICE, I believe, is about the only commodity that has not gone up in price. It is still offered free verbally. You can also secure it in printed form, titled 'How To Do It,' in volumes costing from ten cents to ten dollars. These usually start off by describing the beginner's first move in some activity and go on from there *ad infinitum*. A man can become an expert, theoretically, if his education permits him to unravel a tangled skein of words and his brain is capable of absorbing those reams of instructions that have been written about 'how to do' everything from supervising a toddler's first steps to piloting a racing car. A general coverage, you might say, from the cradle to the grave.

Hence, please understand that what follows is not offered as advice. I am undertaking to tell what I know about quail shooting, which will take considerable less words than relating what I do not know about that sport. I am not advising any one what to do nor how to do it, but simply putting into words a few things I have discovered about quail shooting in the almost half-century I have been playing it.

I learned to shoot quail a long time ago by the simple process of burning powder—no instructions, no coaching, no preliminary practice on clay targets simulating their flight. Birds were fairly plentiful and a fellow could usually get plenty of action. Some days I wasted cartridges until it hurt both my pride and my pocketbook. I remember one in particular when I shot twenty-five times to kill a single, solitary bird. With quail selling at a quarter of a dollar each, I went badly in the red—shells expended, forty-five cents; game sold, twenty-five.

I guess it was about then that I started inquiring about chokeboring and what it meant. A couple of friends, who had been shooting quail about the same length of time as I, were easily out-shooting me, and I surmised that gun pointing did not have everything to do with their superiority. Patterns I

persuaded them to shoot on the sides of outlying barns proved I was right. In comparison with their guns, mine was shooting entirely too close. Bought as a duck gun, it was no doubt a good one, but as an upland weapon it wasted both ammunition and opportunities. I was decidedly overgunned, and, after an anxious period of frenzied finance, I acquired title to a more suitable firearm.

As time passed I did a little experimenting with different degrees of choke and finally settled upon a boring which must have suited my ability as a gun pointer. At any rate, I began to shoot fair daily averages and to make an occasional consecutive run of kills which gave me, possibly, unwarranted ideas as to my skill. I discovered that for quail shooting, if in error in selecting choke, it is better to err in favor of the more open rather than the constricted pattern—first, because the target is usually within twenty-five yards or less, and second, because the average gunner is overly inclined to hasten his trigger pull, which means his gun is not always properly aligned, therefore the less choke, the more probability of success. In the right barrel, just sufficient to true the pattern—improved cylinder with but little accent upon 'improved'; and for the left or second barrel, improved cylinder again, but a very slightly contracted improved cylinder, and definitely not that boring specified as modified choke.

At the present time I am using a lightweight 12-gauge double. I have, however, shot both 20 and 16 gauge with equal success. Indeed, I shot a 16 gauge for so many years, and so often, that I practically wore it out. But for the fact that by that time 12-gauge guns comparing favorably in weight with the smaller bore were being produced, I would have probably purchased another 16. With weights even, however, the matter of procuring shells influenced me in favor of the 12. Those shells, loaded with almost any size shot, can be found everywhere, even in the store at the crossroads. Also nine times out of ten, one's shooting partner uses a 12 gauge. Consequently, if a hunter is equipped with a like gun, there is no embarrassing moment if he finds himself out of ammunition.

As far as efficiency is concerned, there is little to choose between the three gauges, particularly since the ammunition companies have been loading one ounce of shot in the 20.

There are always those who find delight in criticizing others' habits and performances. I have been told by some self-appointed supervisors of others' activities that I show poor sportsmanship in shooting a 12 gauge for quail. "Use a smaller gun and give the birds a chance," was their unsolicited advice. When I stated I could do practically as well with either a 16 or 20 as with the 12 and saw no reason for changing, my critic would chortle happily and state, with all the reformer's joy in minding the other fellow's business, "Oh no. I don't mean any of those big guns. I think you should shoot a .410."

Well, I don't. I have yet to be convinced that the .410 is a game gun, should be considered as one, or was ever intended to be one. Its small shot load, and consequently small pattern, curtails its practical use except by a very few, and those exceptional game shots. Some persons find pleasure in shooting the .410 as a target gun, but as a gun for field use in average hands it is a menace to conservation. To secure a reasonable bag, or perhaps the legal limit, necessitates shooting at too many birds with undoubtedly a good proportion of them being wounded. The percentage of kills for shells fired is entirely too small. The better sportsman is the one who uses the least shells to fill his limit, which means using the gun he can shoot the most successfully. That certainly is not the .410, not for ninety-nine out of any hundred hunters I have seen perform.

Forty-odd years ago, south of Mason and Dixon's line, if

as a seeker of information, you inquired from the average country dweller, either white or colored, where you could find a covey of quail, in all probability you would have been answered by the blank stare of one who had but faint idea as to the meaning of your question. But then, after the sight of your dog and gun clarified it, he might have replied:

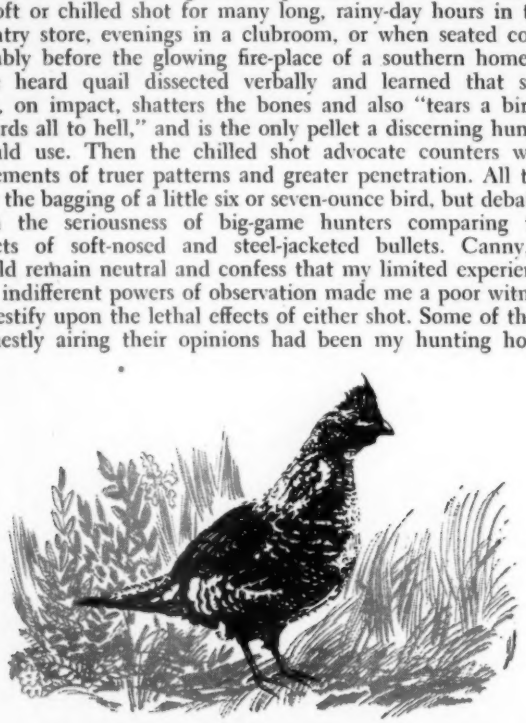
"Yas suh. Yas suh. I jest seen a passel o' pa'tridges crossing the road down yondah a piece."

Or, "Dere is a covey o' pa'tridges usin' in my pea field. Yuh is welcome to hunt 'em if yuh wants to."

That was forty years ago. Now most natives are familiar with the word 'quail,' but if you think there is a lingering doubt in one's mind, tell him you are 'bird hunting.' There is a great variety of birds in the Southland but only one popularly hunted with pointing dog and gun—that brown little fellow, rightly partridge, everywhere called quail, but recognized anywhere in the south as the object of your quest if you state you are 'bird hunting.'

And that brings up another subject peculiar to the states lying south of the Mason-Dixon line, or perhaps more properly peculiar to the 'bird hunters' of those states—the always controversial question of shot, soft or chilled, and which kills quail the 'deadest,' as I have heard it expressed often.

I have listened to arguments, pro and con, on the merits of soft or chilled shot for many long, rainy-day hours in the country store, evenings in a clubroom, or when seated comfortably before the glowing fire-place of a southern home. I have heard quail dissected verbally and learned that soft shot, on impact, shatters the bones and also "tears a bird's innards all to hell," and is the only pellet a discerning hunter should use. Then the chilled shot advocate counters with statements of truer patterns and greater penetration. All this over the bagging of a little six or seven-ounce bird, but debated with the seriousness of big-game hunters comparing the effects of soft-nosed and steel-jacketed bullets. Canny, I would remain neutral and confess that my limited experience and indifferent powers of observation made me a poor witness to testify upon the lethal effects of either shot. Some of those earnestly airing their opinions had been my hunting hosts,



others of the company might be, and I wanted to go quail shooting, whenever and wherever I was invited.

To be entirely frank, I have never been able to discern an iota of difference in the killing qualities of these much discussed shot. Also, I might state, while on the subject of shot, that I have never been strongly partisan to any particular size for quail shooting, within reasonable limitations, of course. I would not expect to use 4's or 5's for these birds any more than I would expect to use number 9's in a turkey blind. Successful game garnering, in my opinion, depends more upon gun pointing than upon the meticulous choice of shot, and any size from 7½'s to 10's will do for quail, or so I have found after using them all. My use of 10's, however, was brief, but not for any cause you would be

Ewing Galloway, Inc.

Whether pointer or setter, the dog hunted day in and day out is the dog that will do good field work

likely to suspect. While shooting a 16 gauge, I was given a neat tin box containing one hundred shells, handloaded with one ounce of number 10 shot. Probably because I had never used number 10 shot before, I kept an account of my kills with them and found I averaged a trifle over seventy percent. Which was good, remarkably so, and I was quite sold with the idea of using them regularly, for like the soft shot of the Dixie hunter they seemed to kill the bird 'deader' than any size I had used previously. But I was discouraged from so doing, and for a most peculiar reason. Naturally, when using this shot, there will be an unusually large number strike the bird from the fact that an ounce of number 10's contain about 860 pellets in comparison with the 580-odd found in an ounce of 9's or the 410 in number 8's. This abundance of shot was the cause of complaint. The quail were hard to prepare for the table and also not so pleasing to eat. And why? Because too many shot had driven too many feathers into the bird's flesh. So, in deference to the wishes of the ultimate consumer, I went back to using larger sizes.

With the advent of skeet and the final standardization of a skeet load, I adopted it for quail shooting. As I am inclined to kill my birds fairly close, number 9's appear well suited, and that, together with the convenience in procuring them, are my reasons for using them now.

Always the popular shot has been, and probably always will be, 8's, and there is no argument against this popularity. I used them for a good many years and occasionally shoot them now, but, as I said before, I really have no preference, 7½'s, 8's, 9's, either of them will do, providing whichever charge is used is distributed in the proper spot at the proper moment.

Which, of course, is the important thing about 'bird shooting.' You can't get 'em if you can't hit 'em. And the knowledge of how to hit 'em is something not acquired from a book or by verbal instruction. It has to be learned the hard way, by shooting and missing and missing and shooting again, until by this method of trial and error you discover where to hold on the straightaway, the quarterer, or the sharply rising bird, and—most important of all, I think—when to press the trigger.

More quail are missed by hasty shooting than any other way. It is a fact that in anything but thick brush quail do not offer a particularly difficult target. If it were not for that

nerve-startling b-r-r-r-r of the quail's wings when he flushes, the average hunter would bring in much better bags. There is something about those hurried wing beats that demands "Shoot!", and nine out of ten bird hunters obey. The tenth fellow is the one who collects regularly. He does not let a noisy flush influence his trigger finger, but waits those important fractions of a second which allow his target to gain the few yards necessary for a gun to pattern properly and to be aligned with certainty.

In watching a good shot perform, I find almost the same pleasure as in shooting myself. You see the bird flush, the quick mounting of the gun, and then that instant of deliberation before you hear the report. Also, you might observe that a majority of one man's birds are grassed at about the same distance from the gun. He has schooled himself to avoid a hurried, usually ineffectual snap. He is not slow; neither is he fast in the jerky, uncertain style of the poor marksman; rather he carries through smoothly, with his timing so well established that each shot is fired at the instant he has found to be proper and successful. Techniques, of course, vary to a certain extent with the individual, but the characteristics are all the same. A certain easy confidence in the handling of the gun marks the difference between the skilled and unskilled performer.

I discovered, a good many years ago, that speed is the quail shooter's greatest obstacle to success, allowing the disconcerting flush to move him to premature action and shooting when the bird is entirely too close. Until you can control that impulse you will never be a good shot. Any one with normal reactions can mount and fire a shotgun in the time it takes a quail to cover the first fifteen yards or so of his flight, and very occasionally he will hit his target. But that he has handicapped himself greatly when making the shot is obvious. He has neither allowed time for proper pointing nor taken advantage of the gun's pattern. Some day he may learn there are two 'musts' to be observed in quail shooting. He must not shoot until his gun is firmly against his shoulder and properly aimed at the flying bird, not pointed in its general direction, and he also must wait until that bird has gained those additional important five or six yards of distance that will give him the advantage of the gun's pattern. Then, and I can state with absolute certainty, not before then, will he be successful as a quail shot.

Pointer or setter. You pay your money and you take your choice. And again I am remaining neutral. I have owned and hunted a good many dogs, and I have also hunted a good many dogs I did not own. One positive fact I know. Good dogs come wrapped up two ways—with short, wiry hair, and with a coat that is long, silky, and beautiful. To state that either breed produces the better dogs is an error, or so my experience has proven. Both breeds have given outstanding performers. My choice of breed would be governed considerably by the country I intend to hunt. In the northern states I would be inclined to favor the setter, whose longer coat insures better protection from the cold, and also because, as a class, I have found setters a bit more tractable than pointers, which is an advantage in the covers you usually hunt for grouse and woodcock. For the south I would prefer the pointer. Warm weather does not bother him to the extent it does the setter and, if hunting in dry country, the lack of water, in combination with the heat, affects him less than it does his long-haired compatriot. But my main and principal reason for selecting the pointer for southern hunting is a very personal one. I have to confess that when I return from a hunt I like to pull off my boots, find a comfortable chair, and relax thoroughly. I have no desire to spend the first half-hour of my return, or in fact any other half-hour even after the relaxing period, in pulling cockleburrs or sticktights from my dog's coat, which, if you own a setter and also some sense of decency must be done by someone, either yourself or, if you are plutocratic, by the hired man.

What makes a good shooting dog is no mystery. Any dog endowed with the average amount of brains and stamina can usually be developed into a bird-finding, intelligent hunter, if given the proper opportunity. But the dog hunted one day each week or two or three times a month is being cheated out of his birthright, and he should not be condemned if his field work ranges from indifferent to poor.

And now you have been told about everything I know of 'bird hunting.' I have found that it takes a great many days in the field to develop a good game shot, that it takes time, and patience, and constant work to develop that pup into a brainy, bird-finding dog, and that it takes the combined efforts of the two to secure decent bags or these present day limits, for the quail of today have gone from high school to college and taken a course in 'How to take care of yourselves,' graduating cum laude. ◆ ◆ ◆

Good dogs come wrapped up two ways—with short, wiry hair, and with a coat that is long, silky, and beautiful

THAT STOCK

By Jennings B. Rader

NO ONE WOULD try to do a first-class filing job without a vise, but many a gunnut tries to do stock work without a stock cradle. Once I tried using the fiddler's grip while working a stock. It paid off in a crummy job, and various shapes of tool marks in my thighs. I am not old in this business, but I learned my lesson—I built a stock cradle. Now my checking looks almost professional, and inletting jobs are cut in half.

This thing is easy to build. Its cost is very low, and believe me it is a needed help. First go to your lumber yard, or wherever you buy your lumber and give them the following bill.

2 pieces 1 x 3 x 46 inch S4S
1 piece 1 x 4 x 2 inch S4S
1 piece 1 x 3 x 11 inch S4S

I used white oak but any good hard wood will do. Next saw the 1 x 4 x 20 inch piece exactly in the middle. One of these blocks will be the head, the other the tail of the cradle. Saw the 1 x 3 x 11 inch piece into three pieces—two 4 inches long, the other 3 inches.

Think of the cradle as a lathe. The 46-inch pieces are the ways, the 1 x 4 x 10 inch pieces the head and tail stocks. Select a 4-inch piece for the head stock. Notch the edge about a quarter of an inch to receive the cup (detail A). Square it with the 46-inch pieces and fasten it securely. Use five 2½-inch flathead screws from each side and glue. It must be rigid. Take the 3-inch square block, which will be the cup, and scoop out the depression as shown in detail A. If you have a lathe the job is simple, but it can also be done with an expansion bit and sandpaper. Mount the cup with a 2½-inch flat head screw, being careful to counter-sink the head below the wood.

With the head stock in place, now build the tail stock. Lay off the remaining 1 x 4 x 10 inch in the same manner. From one end draw a line 3 inches from the edge. Center the line, drop a perpendicular back to the edge. Using these lines as guides saw out a 2 inch by 3 inch block. (This block will form the spacer for the tail end of the cradle. Screw and glue this block in place.) At the other end of the tail stock measure down 1 inch, center and drill a ½ inch hole. This will receive the tightening screw (detail B). Next fit the guide blocks on the tail stock. Set the completed frame on a flat surface and stand the tail stock upright between the ways. Square it to the ways and clamp in position wih a C-clamp. Take the two 1 x 3 x 4 inch blocks and place them on either side of the upright. Glue them in place, being careful not to let the glue stick to the ways. When the glue is dry, you will have a movable tail stock, much the same as the tail stock on a lathe.

We now have to fit the metal parts. You will need:

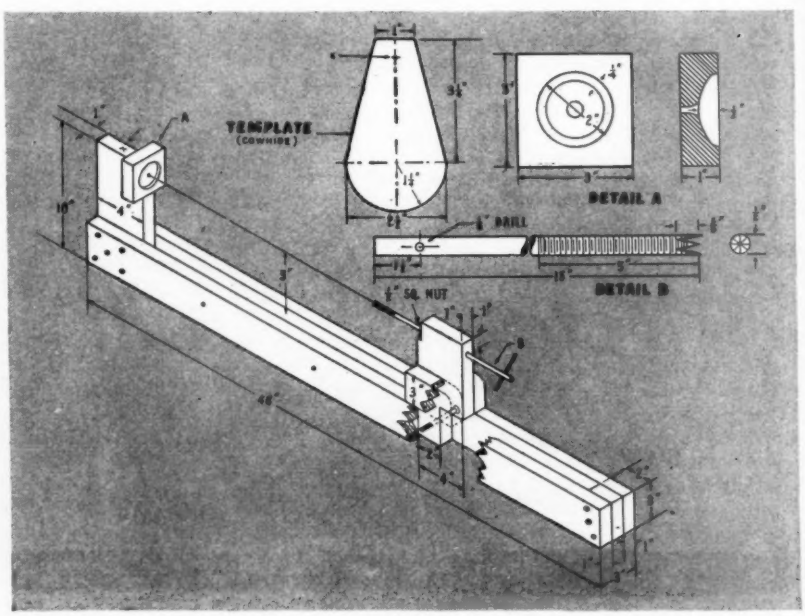
1 ½ inch iron rod 15 inches long
1 ½ inch carriage bolt 4 inches long
1 ½ inch washer
2 ½ inch nuts

Thread the 15-inch rod down 5 inches. On the threaded end, make two hacksaw cuts at right ankles to each other ⅝ inch deep. With a triangle file, file down these cuts until you have four sharp and even points. At the other end of the rod, drill a ⅛-inch hole 1½ inches from the end. Insert a ten-penny nail and brad the end. It will serve as a handle for operating the screw. Insert the rod, threaded end first, through the hole in the tail stock. Run on the nut, and cut a small recess in the wood to keep the nut from turning.

The next operation, placing index holes for the tail stock, is one of individual need and choice. Most guns have stocks of different lengths. For example, I have a Bishop Mauser that measures 32 inches and a stock off an old Marlin that is just under 13 inches long. The best way is to measure two or three stocks. Allow about two or three inches for take up with the screw and drill your holes accordingly. Drill the holes 1½ inches from the bottom of the ways, and in corresponding position in the stub on the bottom of the tail stock. Insert the ½-inch carriage bolt and it is secure (see cutaway on the drawing). Cut a leather pad to protect the forearm tip (template), and nail it in place at point X (see drawing).

To mount stocks, remove butt plate and sink points of the screw in the wood. Rotate the screw until desired tension is reached. For mounting two piece stocks a jig can be made, similar to the metal parts it contacts, and mounted as above.

With the stock in place, the cradle can be placed in a vise. ♦ ♦ ♦



As a customer steps off the elevator onto the Abercrombie & Fitch gun department this is the view that meets the eye—gun racks, North American game heads, and a comfortable corner for relaxing and talking guns

With guns in open racks at A & F, prospective customers can browse to their hearts content

ABERCROMBIE & FITCH

Photographs by Sid Latham

THE Abercrombie & Fitch Company was founded on two ideas—1) that a sportsman can best select his equipment in a sporting atmosphere, 2) that he should be aided in making his selections by salesmen who are themselves sportsmen and can provide expert, personal advice.

These ideas were first tried out in a small shop on South Street in New York in 1892. From South Street the Company moved to lower Broadway, and as the business and shopping district of the city moved north, the company moved also, until it located in its present building at 45th Street and Madison Avenue.

In 1928 Abercrombie & Fitch was merged with Von Lengerke & Detmold of New York and with Von Lengerke & Antoine of Chicago under that name, though in a new store at 9 North Wabash Avenue owned and operated by Abercrombie & Fitch.

Abercrombie & Fitch operated under the slogan of "The Greatest Sporting Goods Store in the World." While it caters to all sports-minded persons, it maintains one complete floor for the gun department, offering customers the best in domestic and foreign guns, rifles, handguns, clothing, decoys, shell carriers, gun cases, holsters, and ammunition.

William Schroeder, head of the A. & F gun repair department, converses with a customer about his double shotgun

Surrounded by row upon row of fine English shotguns and double rifles, A & F salesman Carl Estey (left) shows a Westley Richard double rifle to Victor Fortunato, a big-bore target shooter

Abercrombie & Fitch regularly stocks new and used, English and continental arms and ammunition. It is the agent for practically every reputable foreign firearms manufacturer, including Purdey, Boss, Woodward (now owned by Purdey), W. W. Greener, Westley Richards, Holland & Holland, Imperial Chemical Industries, Ltd., August Francotte & Co., and others.

One arm interesting at Abercrombie & Fitch is a Boss Try gun, one of the six try guns at A & F, made on special order for the firm in 1924. Equipped with a special stock which may be adjusted to fit any person, it is used to obtain measurements for a stock that is to be custom-made for the customer. Operation of the Boss Try gun is shown at right.

A goose-neck stock specially made for a shooter who is blind in his right eye

A&F Co.

Charles J. Wicks adjusts a Boss Try Gun

Wicks measures the stock for length of pull

Adjusting cast of stock

Adjusting drop of comb

Stock is lengthened to fit customer

Adjustments are measured at comb and heel

Otto Kratzenberg checks alignment of scope and barrel and action at Griffin & Howe, which is owned by and does gunsmithing work for Abercrombie & Fitch organization

Gunsmith Albert Dykes adjusts telescope on Griffin & Howe rifle. As most rifleman readers know, in addition to the work done for A & F, Griffin & Howe retails own products

Robert Heym (left) and Seymour Griffin check a Griffin & Howe .375 Magnum. Heym, a fine all-round gunsmith, comes from a long line of gunsmiths. His father made Daly rifle

Andrew Lawnikouski, an actioneer with Griffin & Howe, works on a Remington shotgun action. Griffin & Howe have long been known for their custom rifles and accessories

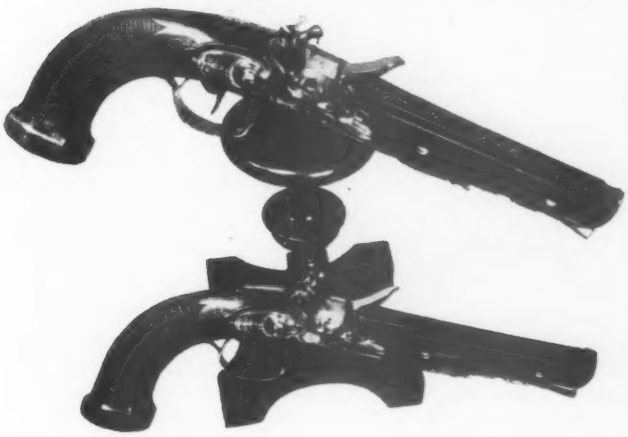
New Italian Beretta in 12 gauge with box-lock action, $400.00

Used English John Rigby .350 caliber double express rifle, $950.00

Custom-built Griffin & Howe rifle in .30-'06 sells for $350.00

Pair of finely matched German target pistols made by A. Frohn. Price of the pair, with case and loading tools, is $700.00

Pair of flintlock pistols by LePage of Paris being sold by A & F on consignment. Price, $1,125.00



Beautiful pair of Italian flintlocks of about 1725

Finely engraved Winchester single-shot rifle on high-wall action fires a .22-3,000 Lovell. Value of gun with engraving $750.00

.280 Cartridge

Continued from page 21

charge—and go to work.

Since the performance of the British .280 was supposed to closely approximate that of the .276 Pedersen, we test-fired Pedersen ammunition in a special rifle Tom had built for it years ago. We recorded an instrumental velocity at 60 feet from the muzzle of 2647 feet per second. The Pedersen has a 125-grain boattail bullet, and thus clocks about 150 feet per second more velocity than the British .280 is supposed to make.

The Pedersen cartridge was loaded with 32.3 grains of IMR 25, Lot 1324, so we tried that charge with the Pedersen bullets in the .280. Instrumental velocity ran 2776 feet per second, and while pressures appeared high, they seemed reasonably safe. Note the velocity gain of 130 f.s. in the smaller British case.

The same powder and charge back of some 145-grain U. S. Cartridge Company bullets brought dangerous pressure—and grief. One weak case on the fifth shot let go at the head, wrecking the guide lips on the bolt face, and cracking one bolt lug. The bolt was replaced with a new one. Velocity with this load ran 2566 f.s., beating the British, but obviously the powder was not the proper one.

We switched to 4198, lot 8C. Using the 132-grain Shay bullet, we worked up to 29.8 grains with a velocity of 2566 f.s., and reasonable pressure. Thus we had topped the supposed British velocity by better than 60 f.s. This load gave a five-shot group at 100 yards with a 1 inch vertical and 1 3/16 inch horizontal spread.

With the 140-grain Shay, we worked up to 28.6 grains, achieving a velocity of 2460 f.s. The load was on the hot side — leaking primers and hard extraction. So we switched to 4895, lot 27277. With 30.7 grains we got a velocity of 2305 f.s. The same charge with Western 139-grain bullets clocked 2297 f.s.

We tried 123-grain Western Tool and Copper Works bullets with up to 30.9 grains of 4198 and clocked 2771 f.s. velocity, but the load was in the top-bracket. A charge of 30.3 grains gave 2685 f.s. and the group opened to 2 inches, but we located the trouble—a loose scope block.

All told, after three days of hectic labor, loading, firing, and checking results, we came up with this conclusion: The .280 British cartridge is an interesting little baby which cannot be loaded to proper velocity without running into the 50,000-55,000 pound pressure levels. A hot little baby like the .280 can produce a lot of grief in a lightweight, mass produced shoulder weapon. Nevertheless, the vague and contradictory publicity the cartridge has received is dispelled. This baby is better than we thought!

A wire from Tom Florich received at presstime states that Griffin & Howe is now prepared to build rifles for the new .280 British cartridge. A leading maker of loading tool dies is being asked to produce standard loading dies and case forming dies, and the special neck reamers will be available. The mystery has been stripped from the .280 British—now anyone can play with it. ♦ ♦ ♦

English Gun Laws

Continued from page 20

made that soldiers coming on leave had to leave their rifles at specified centers before proceeding into the city; presumably this would have extended to troops passing through here also. The dumping of a rifle might have meant a soldier on seven days having to lose two of them, unless such dumps stayed open for twenty-four hours. In any case, it would have been just one more imposition on the serviceman. Fortunately nothing came of this proposal; what did get put out, however, was a police circular to all firearms owners in Birmingham, pointing out that it 'was an offence' to leave the guns in the possession or keeping of relatives who had no firearms permit, and that the shooter was recommended to 'surrender to the police for destruction' any arms or ammunition which he might have, and had difficulty in finding safe storage for. Alternatively, the police offered vault storage (no cleaning or other care) until the patriotic, purblind shooter should have returned from 'doing his bit' for this Eden of Freedom. Many firearms were impounded from gun dealers in 1941, also, and anyone who had left his guns with such dealers on enlisting stood a fair chance of losing them; many dealers, who had some of the arms taken from them due for return, never got the same ones back; let alone the probability of injury by the clueless morons into whose hands the guns themselves probably came. I am certain that present restrictions will never be amended except towards increasing severity. I was told by one who was present that .45 and .38 revolvers were included in a number of handguns used as filling for the concrete foundation for a new police station, either late in 1940 or early in 1941; despite acute shortage of any handguns at that date. Shooters who read those 'perforate a parasite' appeals in the RIFLEMAN should have been informed of that also.

August 3, 1949

Yes, I was very glad to hear that the anti-gun fanatics have had some reverses in your country; but if I may pass any opinion regarding such a fight I would say, *never* let up for a moment; it has already happened here and should be a warning to all free shooters in all other countries of like freedom to yours. I wrote to the RIFLEMAN again on this subject, quoting the facts here regarding the purchase and possession of any ball ammunition from .22 BB upwards (forbidden without a permit) and likewise how, even after a shooter might have succeeded in getting a permit to purchase a .22 singleshot pistol or target rifle, he was still forbidden in many cases to own a single round of ammunition for it. In this connection a friend of mine, in Tipton, who does some part-time dealing and repairs, had a home-made single-shot percussion pistol come in from a customer to have a new spring fixed. This was an under-hammer smoothbore, caliber about .45 and about a six-inch barrel. For this gun the owner had had to get a permit to buy black powder; and legally was liable to be fined for sending a weapon for repair without stating that it had never been proved. Alternatively, my friend was supposed to send it in for proof in any case. In the case of heavy weapons our proof laws do act as a measure of safety. American shooters who donated personal firearms to this legally disarmed country in 1940 and later ought to know too that one way in which these guns were disposed of after they had served their turn was to convey them, butts upwards, under a steam-hammer; with two police officials watching.

January 20, 1950

One rumor going round the trade—I have not managed to get anything more definite so far—is that a new law on the list will make possession of an unregistered firearm (i.e. any rifled weapon, or any arm less than 20 inch barrel length) punishable by a long prison term without the option of a fine.—B. T. H. ♦ ♦ ♦

A. E. Berdon

A .38 SPECIAL AUTO

Two expert gunsmiths, Berdon and Peters, have succeeded in altering the .38 Super to handle the .38 Special load—results have been amazing

By Col. A. M. Libasci

THE COURSE of match pistol shooting, like that of true love, is not smooth. Especially it is not smooth and even downright rough when we try to master the .38 Special revolver almost invariably used in center-fire matches. Look back, all of you hammer fumblers, and count the endless hours of dry practice spent cocking a revolver so that you could get off five well-aimed shots in rapid-fire sequence in ten seconds!

In my opinion, using a revolver for the timed and rapid-fire matches is doing things the hard way. As that great shooter Lee Echols says—like running into the wind with a funnel in your mouth! To me, after some years of close study and intense participation in pistol tournaments, one thing is obvious—it takes talent and temperament to become a top-notch revolver shot. Either you have it or you don't. Of course, endless hours of practice will help, but the spark must be there to produce a real top-notcher. Some shooters, although they become very proficient with the .22 and .45 caliber, never rise to heights of ability with the .38 revolver.

The center-fire matches separate the men from the boys. And further still, the timed and rapid-fire stages of the center-fire matches cull the lads from the men! A study of a few bulletins will quickly show you that there are at least twice as many Masters with the .22 than in the center-fire group. At some of the bigger tournaments you will find more Masters in .45 matches than in center-fire!

These facts, like the ads say, are proof positive that the .38 Special revolver is a tough nut to crack. It is difficult to maintain a 93 tournament average with the revolver. You will see the same names heading the lists of winners of center-fire matches; men who have what it takes to master the gun.

I remember the great embarrassment a couple of years ago when the center-fire and .22 classifications were separated. Some real top-notchers found themselves Experts with the center-fire. Under the system of combining .22 and center-fire scores for classification, they had maintained their Master ratings because of very high .22 scores.

The facts being what they are, it behooves us to analyze the situation and see how we can improve our center-fire scores. Are center-fire scores lower because of the greater recoil of the .38 Special? Partially, but that is not the real answer. Some fantastic scores are produced with the .45 automatic. In fact, some shooters, in despair of ever mastering the juggling of hammer cocking, now use their .45's in the center-fire matches! A comparison of the aggregate records does not prove too great a superiority of the .38 Special revolver over the .45 automatic. The record aggregate with the center-fire is 883 against 882 for the .45!

Anyone who ever tried firing 5 shots in ten seconds at

25 yards with the revolver knows the answer. To consistently knock out good scores in timed and rapid fire with the revolver takes a degree of muscle, nerve, and emotional control that few of us ever attain. As a matter of fact, there aren't more than a baker's dozen consistent revolver shooters in present competition. Men who can consistently shoot over 860 in the aggregate are quite rare.

Here is my explanation. Most of us do better with the automatics than with the revolver simply because the matter of cocking the revolver for each shot adds another movement to be learned by an already overburdened muscle and nerve system! To use a comparison, it's like the juggler who learns to keep four balls in the air and then tries to add a fifth! It's the straw added to the camel's back!

Most of us can just get so far—to learn to hold and squeeze them in the pressure of competition. Add the cocking movement, with its accompanying lowering or lessening of aiming time, and we fall slightly apart at the seams and start jerking!

It works conversely, too. The fellow who can make high revolver scores in tournaments will soon be a great shooter. If he has the temperament and emotional makeup to conquer the revolver, he is a cinch to shoot well with automatics. Our great revolver shooters today are also our great three-caliber shooters—Benner, Reeves, Hemming, Jones, Farant, Stark, Starkey, Lalonde, Spavor, Barrier, Rizzolla are just a few that come to mind.

What's the solution for the rest of us dubs? Get an automatic? Until recently, all we could do was use the .45. I firmly believe some of us Experts in the center-fire classification would do better with a well accuratized .45, especially in timed and rapid-fire matches, using a light reload of mild recoil.

All this boils down to one point. There is absolutely no doubt that the vast majority of pistol competitors could improve their scores considerably if they had a .38 Special automatic to use in the center-fire matches! Why haven't firearms manufacturers produced such a gun?

During the last few years, several hardy but isolated individuals have tried to produce an automatic that would handle .38 Specials reliably. With one exception, most of these attempts were made by private individuals and not by manufacturers. The one exception attempted by a manufacturer was a complete bust. I do not know the facts, but an effort was made to produce a .38 Special automatic which did not prove successful.

A few rugged experimenters tried to convert the Colt Super .38 Automatic to handle .38 Special ammunition—no easy feat! Those few who succeeded in getting the aim to function did not get good accuracy and gave up.

One brilliant craftsman did not give up. Mr. A. E. Berdon, the Lakeland, Florida, handgun accuracy wizard, applied his many years of inventive experience to this problem and last year produced a dream gun—the answer to the target shooter's prayer.

Mr. Berdon converted a Super .38 Colt automatic to handle .38 Special ammo, either factory or reloaded wadcutters, and to function with even the mild 2.5 grains of Bull's-eye and the 146-grain H&G number 50 bullet! The gun has Micro sights, a 2¾-pound trigger pull with a fantastic anti-slap device, and the insurpassable Berdon accuracy job!

Last year Mr. Berdon sent me his pilot model to test-fire in tournaments. I did that, keeping careful records of functioning and comparative scores. After I fired the gun in three tournaments and for 1,500 rounds in practice without a bobble, I found I had increased my averages 5 points over the National Match Course and fifteen points in the center-fire aggregate! I equalled my 50-yard revolver scores —gained two points timed fire and three points in the rapid-fire stage.

I immediately prevailed on Mr. Berdon to make up such a gun for me and later in the season I received it. It is a beautiful job. It handles like a .22, functions with 100 percent reliability. I have now shot it about 5,000 rounds with but one failure, and it was due to careless loading of the magazine. I use reloads exclusively—2.5 grains of Bull's-eye and the 146-grain H&G number 50 bullet.

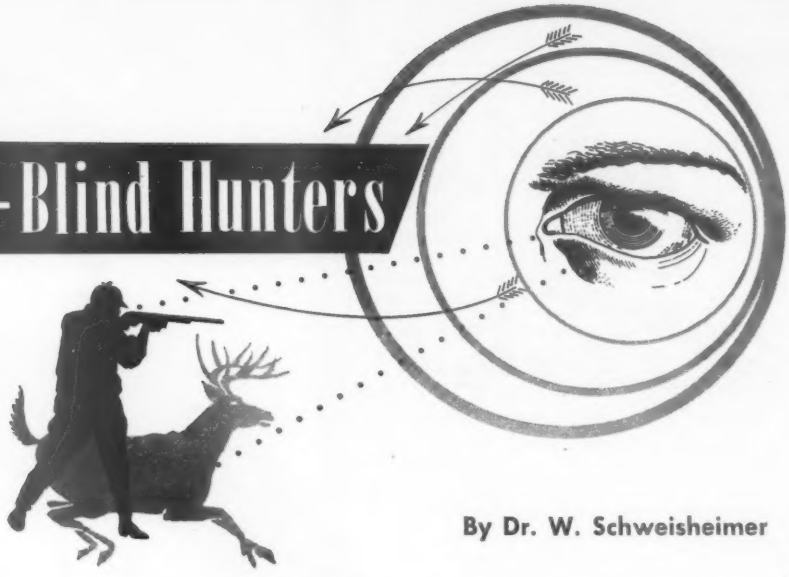
After one complete season of practice and tournaments, a carefully kept record reveals that I have improved from a center-fire aggregate average of 806 to 824 or 6 points over the National Match Course. Most of the gain is in timed and rapid fire. The exact differences over my revolver match scores are as follows: Slow fire, gained 1 point; timed fire, gained 2 points; rapid fire, gained 3 points!

At 50 yards the gun is very accurate. I have fired one 98, several 96's, and many 93's in practice with it. At timed and rapid it is as sweet to shoot as a .22. All who try the gun fall in love with it and immediately ask where they can get one.

I had often wished one of these guns could be put in the hands of a real Master shooter. I, myself, could not really do justice to it. Now my wish has been answered. Last year Buck Fisher, the great Texas civilian shooter, fell so in love with my gun that he prevailed on Lt. Peters, the clever El Paso craftsman, to make one for him. Lt. Peters had been working on the conversion for some time. Late last year he came up with a successful model of the Super .38 converted to handle .38 Specials.

Buck Fisher has proven I was right. So far this year Buck has been the scourge of the center-fire matches and has already broken two civilian records with his .38 automatic. Buck has fired a new civilian centerfire aggregate record total of 874, and a timed-fire civilian *(Continued on page 50)*

Color-Blind Hunters



By Dr. W. Schweisheimer

WHAT GOOD will it do if you are wearing the red cap of a hunter, but other hunters in your company are color-blind? Does it mean there is greater possibility of a hunting accident than with hunters of normal color vision?

The problem recently was discussed in the *Journal of the American Medical Association*. A Pennsylvania physician asked the *Journal* whether, according to present medical opinion, a hunting license should be issued to a color-blind person. If licenses are issued without regard to the color vision, he asked, what colors or combination of colors should the hunter wear so that he would not be mistaken for game.

Color blindness is often inherited and existing from birth. Certain colors fail to produce charcteristic color sensations that they produce in normal eyes. Red and green blindness are the most common forms. The defect cannot be cured, but the color sense can be developed if training is begun at an early period of life. Blindness for blue and yellow is rare.

Not all disorders in color distinguishing are inherited. They can be developed by sickness, chronic nicotine intoxication, sinus trouble, diabetes eye disorders, etc.

Color blindness occurs in about five to ten percent of men and in less than one percent of women. Color-blind people see colors as people with normal color vision see them at dusk. Certain nerve branches in the retina, the nervous background of the eye, are too little sensitive to color. Even if you are a hunter with excellent color vision, you cannot recognize colors in a brightly star-lit night. You can plainly distinguish trees and roads and moving objects, but otherwise you are like color-blind.

A locomotive engineer who is color-blind may be a public danger. For a hunter, though he wouldn't be a public danger, color blindness may well be a drawback. Sometimes he goes through better than expected. A color-blind hunter or driver has to consult occasionally a friend who has normal color vision. Frequently, however, he knows from experience how to distinguish between different colors by pecularities which have not been noticed by people with normal color vision.

A frequently heard question is, how can color-blind people distinguish between red and green traffic lights?

They can, because the red light appears to them different in intensity than the green. A color-blind chauffeur was asked whether he had difficulties with the red and green signals. He replied, "Not at all. The green lights are always blue!"

Color-blindness has not been known for a long time. In 1877, a Spanish gun boat had run down a schooner inadvertently because the color-blind helmsman of the schooner had taken the red and green signal lamps of the gun-boat to be white harbor lights. That was one of the first cases of color blindness known over the world, and it aroused much speculation and caused valuable research.

The differentiation of red and green is of practical importance in hunters and red-green blindness is the most common form of color blindness. Total color blindness, for all colors, is much rarer than red-green blindness. A color-blind hunter can well distinguish between the various shades of light and dark.

Whereas yellow seems the brightest color to people with normal color vision, green is the lightest color for the color-blind. Efforts have been made to improve the color vision of color-blind people by training. Suddenly, however, an unexpected constellation of colors turns up in everyday life, and then the limitation of the color sense becomes obvious.

Some inventors have tried time and again to produce color spectacles which would enable color-blind people to see colors as do people with normal color vision. This, of course, would be a most helpful device for hunters with either inherited or acquired color blindness. Actually, no inventor has succeeded so far. For some cases of color blindness, slightly smoky eye glasses have proven helpful—with various shades of gray being used according to the time and brightness of the day.

The *Journal's* expert stated that it would be an undeserved discrimination if hunting licenses were refused to color-blind persons. Color-blind persons distinguish differences in contrast and brightness that suffice for their lack of ability to name color. Thus, they are well suited for general living.

The custom of using red as identification by a hunter has become well established in the minds of the people, as is the use of white canes by blind persons. No color worn by a hunter will be more readily discerned or more quickly interpreted by the vast majority of hunters than the accustomed red. The flag of identification must be set up for all hunters, irrespective of their color vision.

The color-blind among hunters are no greater in proportion than in civil life. And as the *Journal's* expert emphasizes, their record of safety in traffic is no worse than the record of those who are not color-blind. Factors other than inability to recognize the red cap of a hunter and the white tail of a deer are more responsible for hunting accidents. ◆ ◆ ◆

By Frederick Wilkins

Think twice before refurbishing that old dueling pistol. The value and beauty of it and other antique arms can be ruined or enhanced by the care given it

CARE AND CLEANING OF ANTIQUE GUNS

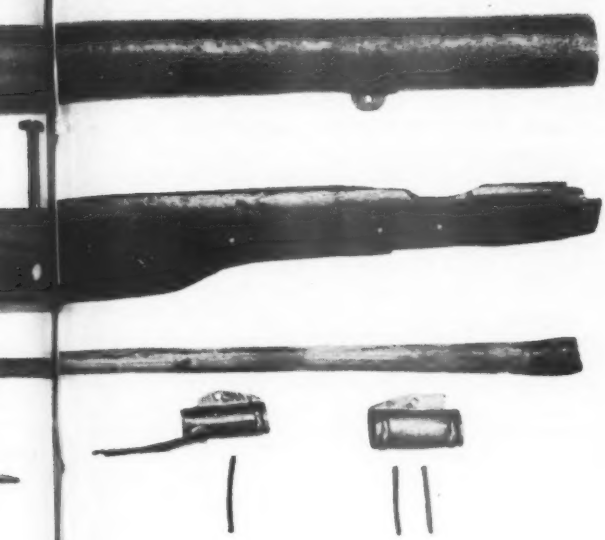
THERE ARE two schools of thought regarding antique weapons. One holds that they should be shootable and bright. The other leans over to cobwebs and dust. Like most extremes, both views omit certain considerations.

The value and beauty of an antique firearm can be enhanced or ruined by the care given it. Too, most antique gun collectors don't care if their weapons shoot, but grime and rust are certainly no indication of age or of value of antique arms—quite the contrary.

If you have antique guns, the urge to clean them, to dismantle them, to see what makes them tick, is too much to resist. It is a natural inclination that no one who is interested in guns intends resisting, or should. But you can use a certain amount of caution in such work, and someone who is relatively unfamiliar with old arms will save himself a lot of trouble and lost money if he will reflect that in five minutes he can ruin the best work of a celebrated gunsmith. The use of sandpaper on metal parts, for example, can remove a finish that has been on a pistol barrel for generations.

A large part of the resale value of an antique gun depend on the care given a weapon in its first cleaning. Variou types of old weapons bring different prices, depending on co dition, which is usually given as good, fair, fine, poor. Yo can buy a weapon in fine condition, 'clean and repair' it, an end up with a fair weapon. Proper cleaning of an antique gu should be an effort to restore the weapon to the condition i was in when it came from the gunsmith, provided no *maj* changes or replacements are necessary. Whatever remain of the original finish should be retained, for an old weapo will always show some signs of wear—and often of abuse and you can't completely do away with evidence of hone wear.

As far as the wood on an antique gun is concerned, it aga will be part of the value of the weapon. There is nothin lovelier than the century-old patina on a fine gunstock, whethe it is the brightness of a maple Kentucky or the dull sheen of walnut duelling pistol. Not always visible, patina is there it can be restored, or it can be removed.



A flintlock pistol by Hyslop disassembled. There were four screws which had to be removed—the tang screw, the two through the stock into the lockplate, and one holding the brass on the butt. Other parts were pinned

The first step in care and cleaning old firearms is to obtain the few tools you will need. Cleaning and repair can be done with equipment which the average home owner has around the house. Plan to use a screwdriver of the proper size for each screw; screws vary in size, and a slipped driver can mar a wooden stock or scratch a lockplate. Barrel pins will require punches with long, slender heads, again in various sizes to avoid enlarging stock holes. Once started, pins can be pulled clear with pliers. A small brass hammer is useful. Some hammering is necessary, and the soft head will not damage your weapons. Springs require compression; something other than pliers is often needed, so a small vise is a help.

Friction against a bench top can scratch a stock. Have plenty of rags handy—better still, use a foam rubber pad to rest the stock upon. And when working in a vise, see that the weapon is protected by jaw covers. That is basic. Old wood is often brittle, and cracks can be started that are not apparent at first.

A home-made tool that will be handy is a probe made from a large needle. Have the needle mounted in a wooden handle and use a little experimentation to find how much give you want in the needle. Cleaning of engravings and maker's marks is a simple task with such a probe.

The usual cleaning materials will be necessary—patches, oil, rags, rods. A helpful aid is a can of penetrating oil, which you can probably pick up at a hardware store or a gas station. Kerosene is also good in loosening rust, and you will need linseed oil for wooden parts.

A thorough external check should be made of a weapon before you begin to take it apart. Any screws that seem rusted should be treated with penetrating oil and allowed to loosen. Remember that metal will rust and bind in wood as well as in metal. A glance at the photograph will show the main parts of a muzzleloader, either flint or percussion. If you are doubtful, make a drawing of your weapon beforehand, using it as a guide in reassembly.

For the normal weapon, remove the lockplate screws and then the lockplate and lock assembly. Removal of the screws does not mean the lock will come free. Old smiths were proud of their ability to make tight fits, and many plates will seem to be almost part of the stock. Use patience in working free such tight fits, as firing has usually dried out the wood about the plate and made it brittle.

Once the lock is clear, remove barrel pins with a drift punch and remove the barrel by unscrewing the tang screw. Chief trouble will be in enlarging pin holes by an improper size punch. Certain pistols, especially duelling pistols, were key-held, using flat metal bars which slide in steel guides. Most of these keys were fitted in guides and do not move more than half way, just enough to clear the barrel. If keys go part way and seem to stop, do not use any more force—that's as far as they go.

Duelling pistols dated later than about 1780-90 had false tangs, the barrel fitting into the false breech by a wedge catch. This enabled the shooter to remove the barrel for frequent cleaning without using a screwdriver. When the keys or pins are clear, the barrel lifts up. If it doesn't, go slow. Often all retaining pins and bands will be clear and the barrel will be such a tight fit that it will not come clear readily, or there may be rust along the underside. Removal of a band-held barrel is simple. Compress the spring holding the band in place and slide the band forward, using care not to scrape the wood.

With the lockplate and sideplate free, the barrel out, removal of other parts is simple. The trigger and trigger guard are held by pins exposed when the side plates are off, with generally one or two screws. Ramrod thimbles and guides are also pin held. But caps are held by a screw. No metal or inlays that form part of the decoration should be removed,

(Above) U. S. Navy Model 1843 .54 cal. percussion pistol manufactured by N. P. Ames of Springfield, Mass.

(Left) U. S. Springfield Model 1855 percussion pistol used tape primer, firing .58 cal. ball

unless loose or broken and you wish to replace them.

As a general rule, the parts of the lock will be rusted. Let the entire assembly soak for a day or so in light oil or kerosene. The rust will be loosened and simplify disassembly. Unless absolutely necessary, there is no point in taking down the lock group—the less wear on old screws the better. If you do remove the parts, compress the main spring by a vise, also the smaller sear springs, as unscrewing screws under spring pressure will strip the threads.

Clean the lock thoroughly and reassemble using the vise to compress the main spring. You might check the inside of the lock for any maker's marks. Often a plate was marked inside, especially where one man made the weapon proper and another the lock. The underside of a barrel may have proofmarks on it, the result of a smith not wishing the finish or design to be marred by government approval.

As long as we are on metal cleaning, let's finish up with the barrel. On old pieces, the interior of the barrel is of no account—unless you like to shoot your weapons. However, a rusty muzzle detracts from the looks if not value. Soak the barrel good and sponge it out with *soft wire* brushes until clean. The exterior of the barrel can best be cleaned with oily rags, or first kerosene and then oiled. Rust should be loosened first—*never* taken off with sandpaper or files. The harshest material that should be used in cleaning is fine steel wool. To a large extent, wood finish can be restored; but once metal finish is gone, it is lost forever.

Many old arms had a rich brown finish which may be mistaken for rust, but you can tell rust by the lighter color of it and the way it streaks under oil. If the barrel or lockplate is bright metal, let it alone, removing rust, but don't

try to work metal down to brightness. The average old gun barrel, after cleaning, will be of a dull brownish color, regardless of original finish.

Brass fittings should be cleaned with any good polish. They were originally bright and should be so now. A good cleaning keeps away discoloration and prevents decay of the wood. Certain fine weapons had silver fittings, or gold work on them. These may be cleaned as you would any fine metal object.

You will be able to do your best work on the stocks, for wood offers more possibilities for restoration than metal. The main point here is *never sand or scrape a stock.* Once the surface patina is taken off, it is gone, but a little work will bring life to wood that is apparently dead.

Often merely soap and water will clean a stock, or turpentine on a soft rag will remove surface grime and oil. Removal of the surface film will leave the stock looking duller than before, but it is clean. If much washing has been necessary, rub *lightly* along the grain with fine steel wool, removing any raised fibers, which you can usually feel with your fingers. Steel wool merely sets the grain. Now get out the linseed oil and start to work.

Place a few drops in the palm of your hand and start rubbing it into the wood. Take plenty of time and use many applications of oil rather than a few heavy baths. Every stock will be a different problem—some will take two applications, others a hundred. Keep rubbing oil on the stock until the oil is not sticky, until the wood will take no more. You will find the wood a little darker than before, but with life and beauty, with a sheen that only old wood can possess.

The barrel recess in the stock and cut-away portions for lock and fittings, should be carefully checked for signs of rot and small cracks. Often patching with Plastic Wood, or gluing, is required. A coat of varnish will protect these interior spots, but never apply varnish to the outside of a stock.

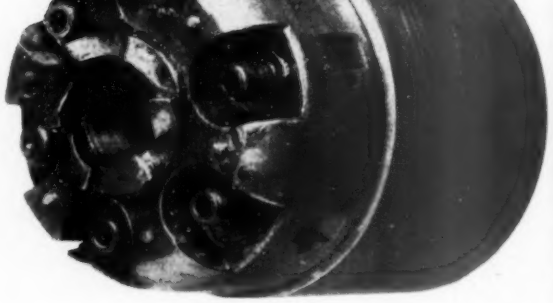
A definite part of cleaning and care of an antique gun is restoration. Here we get into something of an ethical problem—just how much can be done in restoring an old weapon and still retain the original? Naturally, you can do anything you wish with your own collection, but if you ever wish to sell, you must bear in mind that altering the major groups of a firearm is altering the value. A good general guide to making major repairs other than cleaning is to do nothing more than replace parts that a gunsmith would normally repair in the lifetime of the arm and to make only such repairs as are needed to preserve the weapon.

Quite a number of parts on a firearm can be replaced without changing value. Sears wear out and may be replaced. Certain screws may strip. Pins may become lost, or useless. However, the replacing of a missing hammer is a major operation and changes the piece, as is adding inlays in a stock where there were none, or browning a shiny barrel.

Any bad breaks in the stock should be repaired, as they tend to prolong the life of the weapon, but you must mention such work if you ever sell the weapon. These repairs are not too difficult, if you use care. Clean breaks may be glued, making certain the two surfaces are clean, and fitting the pieces together carefully. Keep the pieces together under pressure until the glue is dry, then refinish the stock with linseed oil as suggested above.

Where bits of wood are missing, match the wood color and type as closely as possible. Prepare an inlay, with the grain running the same direction *(Continued on page 50)*

Before attempting to fire percussion revolvers like the Starr (left), be sure that nipples on the cylinder are tight and clean, and that there is no play in the cylinder when the revolver is cocked



What Caliber For MOOSE?

A GUIDE'S OPINION OF RIFLES SUITABLE FOR THE MOST MAJESTIC OF BIG-GAME ANIMALS

By Lee Straight

MARK HUGO, British Columbia moose guide, didn't wax as enthusiastically about 'adequate power' in moose rifles as I expected.

"Oh sure, a .300 Magnum seems to kill more quickly," he agreed, but he just as quickly and emphatically added that. "A powerful rifle is a help for those who can handle it but not half so much help as a rifle that is sighted in properly."

This little introduction to our conversation led eventually to my seeking the facts behind Hugo's opinions, facts that included detailed statistics on eighty-eight moose kills, over fifty of them by Mark himself or by guests at his side. My first reaction was to tone down somewhat my own dogma, most of it having been gleaned from rather wide reading but, with the exception of deer, not too much big-game hunting. What could I say that would impress a man who had seen half a hundred monster moose breathe their last and had carefully recorded details of thirty more kills by guests guided by his assistants?

Mark's discourse reads like something written by such famous practical riflemen as Elmer Keith, Colonel Townsend Whelen, Hosea Sarber, and a few other contributors to THE AMERICAN RIFLEMAN. I thought, this is the kind of thing less experienced hunters should know, the advice that veterans continually try to get across to comparative beginners.

So I took advantage of a day-long rest we were enjoying after forty successive days of guiding by Hugo and, on my part, a six hundred-mile trip to see the man. Out came dog-eared scribblers and logs plus letters from clients. I wrote as Mark talked, wrote until my fingers cramped. I can't begin to relay all the Canadian guide's advice, condemnations, and even complaints about hunters, but I did draw some conclusions from a chart of the eighty-eight kills, plus two more I myself am responsible for—all moose, mind you—and the result is something for intended moose hunters to note well.

It is unfortunate, albeit somewhat less gruesome, that Hugo didn't trace out and record the exact damage inflicted by each bullet, but it is commendable enough, I suppose, that he kept what records he has without expecting him, busy as he is, to perform post mortems on his clients' trophies. At least he hasn't tried to pretend, as do many guides, that every shot resulted in a clean kill. Hugo's guests were, at that, far better hunters and riflemen than the average resident hunter.

"I find," said Mark, "that most non-residents—or even residents who engage guides—are better equipped both as

to marksmanship and firearms when they realize their hunting investments are too great to be taken lightly. Most of my American guests in particular can really shoot."

"And another point," he continued, "is that I invariably make a guest try out his sights on the eighty-yard range beside the lodge (Mons Lake Lodge, 600 miles from Vancouver, B. C.). And right while I watch. I just can't work for a hunter who is shown moose after moose, only to miss them all because his sights are skew-whiff, something I contended with often when I first started this game."

"How many rifles shot where they should when you did see them tried out first?", I asked.

"About seven out of ten," he answered, and added for the sake of my statistics that about fifty percent were equipped with telescope sights. Almost all the rest used aperature sights.

In the statistics—of ninety kills, only twenty-five were one-shot kills. From my own further examination of the table I would say that twenty-nine more are potentially one-shot kills but that because of the moose's ability to 'take it' they stood while hunters continued to pump bullets into them.

Four of the animals killed might easily have, without Hugo's superior tracking ability to call upon, escaped to die later and be wasted. In all his guiding experience, Hugo has lost only two wounded animals, both through inability to find their trails over dry ground and because they left no blood spoor. Many of the hits, though merely labeled 'chest shots', were actually heart shots. Hugo hadn't bothered to stipulate.

The statistics bear up the opinions of Elmer Keith, Jack O'Connor, Warren Page—in fact most shooting editors who know whereof they speak—to the effect that a marked characteristic of the moose is his ability to take shot after shot without folding quickly, but still lacking the more common ability of other game to absorb a lethal shot and keep on running, often to escape.

"Almost any shot into the central area of a moose's body," agreed Hugo, "distresses him. In fact, this characteristic often leads (as in the case of the twenty-nine 'would-have-been-sure' kills mentioned above) to badly shot up meat."

Hugo's favorite shots, even up to 200 yards, are the 'hump' and into the neck, with a standing animal, that is. If the target is moving, Mark, like all other wise hunters, aims for the shoulder or lungs. He ordinarily refrains from a shoulder shot because of accompanying meat spoilage, preferring the lungs on that account. But in aiming for the shoulder on a moving animal he has a chance of hitting the 'hump' if the animal dips below the original sight line or the lungs if it rises.

As to adequate moose hunting power, referred to at the beginning of this article, Mark couldn't be drawn into a definite statement. But he did surmise that:

"I'll take any animal in North America with my .30-'06 at anything under 300 yards. As for the .300 Magnum, it's hard for me to give a fair estimate of killing ability. Certainly it seems to kill a little more efficiently than does a .30-'06—if possible," he grinned, "but with one exception all my guests who used Magnums were also better than average marksmen.

"Take Charles Pratt of Eugene, Oregon, one of my regular annual visitors. He's hunted all over the world and has shot so much game with that .300 Magnum of his it seems just to pop to his shoulder, spit once, and it's all over.

"He seems to take a 250-yard moose shot like a station eight bird in skeet. I've never know him to miss and it isn't just because he won't take a difficult shot. Mind you, and I like to tell this to beginners, Chuck doesn't shoot at flashes of brown or mere movements in the brush. He sees his game fairly first, then curtains!"

A cryptic but mighty good definition of proper hunting caution. Heaven help any of Mark's guests should the latter throw a bullet at anything he can't recognize.

Hugo, incidentally, maintains that none of his guests has ever to his knowledge shot a cow in mistake for a bull, which adds up to a good record. In most cases, even though moose hunters usually seek meat rather than trophies, they are encouraged to take the more mature animals whenever there is a choice. Four or five guests a season do, however, stipulate they want a 'paddler', an animal in his third year, and Mark does his best to satisfy them.

Mark's final recommendations for prospective moose hunters, then, are:

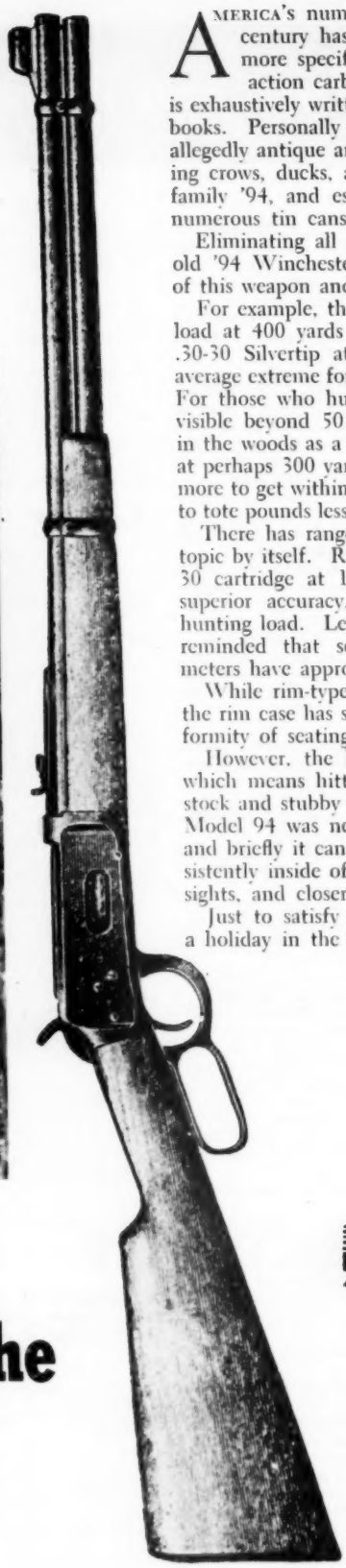
If you can't afford or don't like to use scope sights, by all means equip your rifle with aperture sights. Use a rifle as powerful as you can handle with confidence, preferably with no less energy than .300 Savage, .348 Winchester, .30-40, .303 British, .270, or .30-'06. By all means carry a binocular if you can obtain one, preferably six or seven power. The two Hugo prefers in the conditions of extreme light variation between that of scrub forest and then of open burns are the 7x30 Ross (English) or the 7x35 Bausch & Lomb.

Except on grizzly bear and mountain sheep trips further south in the mountains, Hugo has found no need for a spotting scope. Preferred all-round rifle scope power he has found is four power, though Mark himself shoots with a 2¾-power Lyman Alaskan and hasn't felt a pressing need for a change to four power. He does all his hunting by horse and agrees with me that the bolt handle of his Winchester—or any other bolt action—need never be a hindrance in the saddle scabbard, nor does he find any greater convenience in a 22 or even a 20-inch barrel over the standard lengths of 24 or 26 inches.

"But, most important of all," reiterated Mark, "whether you pack a double .600 rifle or a .25-35, you better know where it puts its bullets. Otherwise you may spend more of your holiday than you like, in rain or snowstorm with your guide, breaking your heart (and seat) over the faint trail of a wounded moose. I just don't let 'em go to waste if I can prevent it. Those big fellows are my bread and butter and I gotta look after my crop just like any farmer." ◆ ◆ ◆

	CALIBER	RANGE IN YDS.	NO. SHOTS	LOCATION OF HITS	REMARKS
1)	.32 Rem.	225	4	3 in head, one in neck.	Not instantly lethal in head, ran until neck-shot.
2)	.32 Rem.	225	1	Hump.	Instant death.
3)	.32 Rem.	120	2	One in chest, one in neck.	Lay down 'sick' with chest shot, requiring neck shot to finish.
4)	.32 Rem.	50	1	In hump.	Instant death.
5)	.32 Rem.	25	1	In lungs.	Instant distress, collapsed and suffocated in moments.
6)	.32 Rem.	75	4	All shots in face.	Ran 400 yards after four rapid shots, then found dead.
7)	.32 Rem. & .303 Brit.	20	1 each	Neck.	Simultaneous shots, both hits, instant death.
8)	.32 Rem. & .303 Brit.	50	3	Two first in head, one in neck.	One shot high, other low in head. Bull collapsed but 'finisher' in neck by .32 deemed necessary.
9)	.30-30	150	2	First in gut, second in lungs.	Ran half-mile after paunch shot, found 'sick', lung shot killed outright.
10)	.30-'06 .303 Brit.	50	1 each	Leg, neck.	Simultaneous, dying instantly from neck shot.
11)	.32 Rem. .303 Brit.	100	3	Two in rump, one between eyes.	Each struck rump once, animal ran 500 yards, shot dead between eyes by .303.
12)	.32 Rem. .303 Brit.	125	1 each	Both in neck.	Instant death.
13)	.30-30 .303 Brit.	40	1 each	Gut, neck.	.30-30 shot first, hitting gut. .303 killed instantly in neck.
14)	.30-30	20	1	Neck.	Instant death.
15)	.30-30	75	3	One in lungs, 2 in upper chest.	Lung shot not instantly fatal, hence additional shots.
16)	.30-40	100	1	Hump.	Instant death.
17)	.30-30	175	4	Three in chest, one in neck.	All shots would have been fatal, but animal died reluctantly.
18)	.30-'06	80	1	High in lungs.	Collapsed in moments.
19)	.30-'06	85	2	Neck (base), head.	Traveled half mile after neck shot, dispatched with head shot.
20)	.30-'06	200	2	One high, one low in neck.	Traveled 50 yards after two rapid shots, then died.
21)	.30-'06	12	1	Heart.	Heart demolished, instant death.
22)	.303 Brit.	27	3	One shot broke front and hind legs, two shots in nape of neck.	Shot at dusk, walked 200 yards to where found next morning with two quick neck shots.
23)	.270	150	1	Below heart.	Instant death.
24)	.30-40	180	4	Two in lungs, one in gut, one in neck.	Shot running with first three shots. Found down, shot in neck.
25)	.348	20	2	One high in chest, one in lungs.	Rapid fire, instant death.
26)	.303 Brit. .30-40 .32 Rem.	400	5	Two in neck, two in lungs, low; one in ear.	All three missed first three shots apiece .303 hit neck on fourth and fifth shots; .32 hit twice low in lungs; still alive when approached and shot behind ear with .303.
27)	.30-'06	175	1	Facing shot at base of neck.	Instant death.
28)	.300 Magnum .32 Rem.	85	6	Two in brisket, three high in neck, one in ear.	Brush shooting, first two shots from .300 in brisket knocked it down, then got up running. Three from .32 Rem. in neck knocked it down again but finisher in ear needed.
29)	.303 Brit.	100	1	High in lungs.	Instant death.
30)	.30-'06	110	2	Lungs, shoulder.	Both fatal shots, died on second.
31)	.30-'06	90	1	Hump.	Instant death.
32)	.300 Magnum	400	5	Low in frong leg, two in gut, one low in chest, one in head.	Ran after leg shot, lay down after three body shots, head finisher needed.
33)	.300 Magnum	150	2	High in lungs.	Two quick shots almost touching, instant death.
34)	.300 Magnum	85	1	High in lungs.	After hit, hunter lost head, emptied rifle recklessly, reloaded, fired deliberately on empty chamber, then moose tired of waiting, died anyhow.
35)	.300 Magnum	200	2	High in shoulder, lungs.	Two quick shots, quick death.
36)	.300 Magnum	75	2	Low in chest, in hump.	Ran a few yards after first shot, second bullet pierced tree in flight, shed jacket on hunter's side of tree but bullet still killed.
37)	.30-'06	80	1	Neck, behind head.	Instant death.
38)	.303 Brit. .30-'06	50	1 each	Behind shoulder, then in neck.	Just spun from .303 shoulder shot, until .30-'06 bullet seconds later.
39)	.30-'06	75	7	Four in gut, two low in chest, one shoulder.	Just stood and took it all, refusing to drop. High shoulder shot did it.
40)	.30-'06	80	2	Lungs, top of shoulder.	Rapid fire, shoulder shot finishing.
41)	.30-'06	75	2	Frontal, low in chest, neck shot.	First shot late in day, animal traveled 2½ miles in night, finished next day with neck shot at 150 yards.
42)	.30-'06	60	2	Lungs, then neck.	Traveled 40 feet, then neck shot.
43)	.30-'06	100	4	Foreleg, neck (low), twice in lungs.	Just stood till lungshots wore it down.
44)	.30-'06	100	1	Shoulder blade.	Both shoulders pierced, instant death.
45)	.30-'06	12	1	Neck.	Instant death.
46)	.300 Magnum	200	1	High in shoulder.	Instant death.
47)	.300 Magnum	80	1	High behind shoulder.	Instant death.
48)	.30-'06	150	2	Low, then high behind shoulder.	Rapid fire, instant death.
49)	.30-'06	75	3	Twice in shoulder, once in neck.	Stood after two shoulder shots, but neck shot folded him.
50)	.30-'06	60	2	Twice in neck.	Quick death.
51)	.30-'06	175	4	Horn, two in neck, one behind shoulder.	Three rifles shooting, seven shots fired in regular barrage, only four finding target. Quick death.
52)	.30-'06	80	1	Neck.	Instant death.
53)	.30-'06	80	3	Two behind shoulder, one in neck.	Just stood, neck shot killing.
54)	.300 Magnum	100	1	Hump.	Instant death.
55)	.300 Magnum	200	1	Hump.	Instant death.
56)	.300 Magnum	20	4	Two behind shoulder, two in head.	Two .300's shooting, animal actually dead on first two hits but leaned on tree and two head shots cut it down.
57)	.30-30	13	1	Neck.	Instant death.
58)	.30-'06	275	3	Low in brisket, low in ribs, in neck.	Brisket shot downed bull, then it rose and ran as rifleman emptied three magazine-fulls, all misses. Followed 1½ miles, found lying down, shot it in ribs, it ran 20 yards as hunter missed twice more, then killed it with neck shot.

Isn't it amazing that a rifle first made over fifty years ago should be so popular with hunters today? What's the explanation?



What about the '94?

By Melvin M. Johnson, Jr.

AMERICA'S number one deer rifle for more than a half century has been the old 'thirty-thirty' Winchester, more specifically the Model 1894 Winchester lever-action carbine. Now everyone knows the .30-30. It is exhaustively written about everywhere, including the comic books. Personally I am not aroused to eloquence over this allegedly antique arm as such, though I can still recall shooting crows, ducks, and a deer or two with the post-first-war family '94, and especially one astonished flying duck, and numerous tin cans, while still in short pants.

Eliminating all the glamor and romance attached to the old '94 Winchester, a purely pragmatic functional analysis of this weapon and its cartridge discloses interesting facts.

For example, the hitting effect of a super-powered .30-'06 load at 400 yards is no greater, if as great, as that of the .30-30 Silvertip at 100 yards, the ranges representing the average extreme for both cartridges as they are habitually used. For those who hunt where deer or similar game are rarely visible beyond 50 yards, the .30-30 cartridge is as effective in the woods as a .30-'06 fired across a canyon, for example, at perhaps 300 yards. The wood's hunter may have to walk more to get within visible range of his quarry, hence he's glad to tote pounds less of rifle and a cartridge 0.85-inch shorter.

There has ranged endless discussion of accuracy, a book-topic by itself. Rather exhaustive tests indicate that the .30-30 cartridge at 100 yards, groups, as factory-loaded, with superior accuracy, taking second place to no high-power hunting load. Lest this arouse acrimonious debate, let us be reminded that some International Match loads for 300 meters have approximated .30-30 bullet weight and velocity.

While rim-type cartridge cases are somewhat obsolescent, the rim case has some accuracy virtues over the rimless (uniformity of seating) and gives better support under ignition.

However, the hunter is interested in practical accuracy, which means hitting what he aims at. With its two-piece stock and stubby 20-inch barrel tied to a magazine tube, the Model 94 was never any National Match darling. Broadly and briefly it can be stated that this carbine can group consistently inside of four inches at 100 yards, prone, with iron sights, and closer to three inches with telescope.

Just to satisfy personal curiosity the writer recently took a holiday in the Maine woods to do a little shooting (gun

editors need not be the only ones to shoot a rifle with a notebook handy). I chose 50 yards and used two 94 Winchesters—one made in 1900, the other in 1948. Several dozen or more five-shot groups, fired prone under variable light conditions, averaged under 1.90 inches, and with the best wood's conditions gave 1.40 inches. The worst group registered was 2.2 inches. In measuring every five-shot group, I also took 80 percent of each—or 4 out of the 5—and for the several dozen groups 80 percent gave 1.20 inches average.

A custom remodeled Army Krag in full-barrel .25-35 gave one five-shot group of 1.20 inches.

Accuracy groups prone are all very well, but a sample poll indicates that almost invariably a deer rifle is fired from standing, rarely kneeling, and seldom sitting. This obvious and well-known fact inspired some testing and research from a practical viewpoint. The results indicate that at 50 yards, with reasonably fast fire, an average experienced shooter can hit a 6-inch diameter mark most every shot (but not *every* shot). Not infrequently the shooter could hit within 4- to 5-inch diameter marks at 50 yards, but even experienced men were seen to miss the 6-inch mark up to 25 percent of the time. Of course, the sights must be *accurately zeroed*.

Lest any fireside X-ring people overlook the fact, it must be recalled that the National Match A-target used at 200 yards for slow-fire standing had a 10-inch bull and 26-inch four-ring. On the long average very few target experts made possibles. Scores ran nearer 45-46 out of 50. So quite a few shots were out in the 26-inch ring—6.5 inches at 50 yards.

On the pre-war surprise fire course the 20-inch bull B-target was exposed for two rapid shots. This would equal a 5-inch bull at 50 yards. Very few people ever hit that mark every time, though very high scores have been posted.

Consider, then, the panting Nimrod whose pulse is quickened by rugged wood's travel and excitement. The deer is about to jump. Visibility is impaired by the brush. A quick snap-shot is required. The knock-down area in a medium deer is not much over six inches.

For such hunting the group accuracy of the Model 94 'thutty-thutty' Winchester has proved quite efficiently sufficient. Correct sight-setting, plus plenty of practice, is the far more important factor.

Undoubtedly the major factors in the half-century popularity of the Model 94 are its weight of only 6 pounds, 4 ounces, its compact, handy, convenient shape, combined with the venerable time-tried lever-action system.

From the engineering point of view, the Model 94 .30-30 delivers nearly 20 foot-pounds of muzzle energy per ounce of its total weight. An eight-pound .30-'06 delivers some 23 foot-pounds of muzzle energy per ounce, but eight pounds feels much heavier than six pounds after a long hike! And have you ever crawled through a cedar thicket?

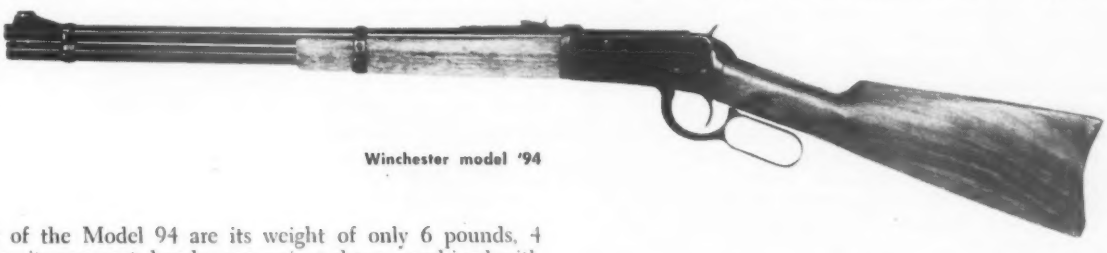
The old-fashioned tubular magazine harks back to the historical Model 1873, and even as far back as Tyler Henry's Civil War era. It is more complicated than the simple streamlined box or 'clip' magazine of our times. But the old tube "runs out there under the .30-30 barrel kind of neat-like, don't take no two hands to grab a-holt in the middle around of it, stows near enough 'bullets' for a week's hunting (7, using two for Saturday, no hunting on Sunday)."

At various times there has been much discussion in military circles about the importance of reloading a partly empty magazine without opening the bolt or disturbing the cartridges. It is no doubt useful to replace fired rounds in the magazine without opening the breech, lest a very sudden shot be needed. The Model 94 incorporates that feature.

An old deer hunter was recently asked how long a deer rifle like the Model 94 ought to last before wearing out and he replied: "Dunno, never wore one out."

The hammer is rather a sore thumb sticking out of the Model 94 frame in this age of streamlining. At least you know whether she's cocked or not.

There exists a school of thinkers who opine that the Winchester 94 is still popular because granddaddy had one. This may explain why these rifles, produced in the early 1900's, are still in use. It may explain why the 'thutty-thutty' carbine has continued to sell through the decades before and the half decade following World War II; or why it is still



Winchester model '94

number one on the hit parade at least north of the Ohio and east of the Mississippi, where the flatter-shooting, long-ranged, knock-down power of more versatile modern cow-country cartridges, such as the .270 Winchester, is less essential for these thicker woodlands.

Having pondered over this argument pro and con—with full credit to comic books, Hollywood westerns, and cowhand's vocalized air-waved laments, the solution came suddenly when I saw an old French-Canadian friend and hunter along the Quebec-Maine border. Stopping to admire his brand new super-flow "Dynatroit Eight" with automatic window lifters and all the latest Michigan marvels, I asked him why he still used the Model 94 carbine. The answer—"Thees leetle tirty-tirty carabeen she ver' damn' fine for jomp queek een-out aut'mobeel'."

◆ ◆ ◆

Antique Gun Care

Continued from page 44

as in the stock. Cut the inlay to the exact size as the hole, but leave wood above the stock level. Now glue as above, and trim the inlay to the contour of the stock when the glue is dry and refinish the entire piece at the same time.

Where the stock has been dented by blows, with no fiber breaks or cuts, steam will usually return the wood to the old shape. Place wet rags, or blotting paper, over the dent and then apply the tip of a hot iron for a few moments. The fibers will be steamed back into shape.

Metal inlays, or scroll work, can be restored, if you desire, by following the same general procedure used in making wood repairs. Scroll work can be replaced, as the outline is in the stock, and you can duplicate the type of wire work by matching that still in the wood. Clean the old guides thoroughly, gently hammer the metal into the channels, and trim off any residue with a file.

Repairs on percussion revolvers and cartridge weapons are a bit more difficult. It is proper to buy old guns in poor shape and use them to replace screws and working parts, but whenever a major group is replaced—cylinder, barrel, receiver—you are changing the piece itself and changing its values. Other than replacing working parts and removing rust, little can be done on percussion revolvers. The temptation to reblue is strong, but it must be resisted.

Cleaning of such handguns is much like cleaning any old pistol. See that the screws are not rusted and remove the stocks. It won't hurt, once the wood is off, to soak the entire arm in light oil or kerosene to remove and loosen rust. As before, use a wooden block to nudge loose stubborn rust particles; for the rest, rags will do. You can save a lot of finish by using only rags and oil and patience to remove rust.

The man who likes to shoot his old weapons must go a step further. In addition to being clean, the weapons must be safe and tight. On muzzleloaders, check the breech plug carefully. Old plugs have a tendency to loosen, and when cleaned the rust that formerly made them tight is removed, leaving an escape port for powder gas. If a clean plug has to be screwed beyond center to be tight, better not fire the weapon. Percussion weapons must have complete hammers—a damaged cup on the hammer will allow cap particles to fly about, endangering face and eyes.

If you fire your old revolvers, see that all nipples are tight and clean, as must be the case with single-shot pistols. At best, percussion revolvers would sometimes fire several chambers at one time. Be certain your cylinder is tight and without play when the piece is cocked. If not, you may have a weapon exploding in your hand.

The main thing to consider in firing old weapons is one of value as much as safety. If you fire a pistol or rifle, you are going to mar the finish to some degree. Blackpowder leaves a whopping deposit on wood and metal, and a fine arm is eventually going to lose value as a collector's piece if it is fired too much. Whenever fired, a weapon should be cleaned immediately—not only the barrel, but the entire surface.

Once you have an arm cleaned and repaired, keep it that way. Go over your weapon frequently for signs of rust. Wipe it off with a lightly oiled rag and then a dry rag. Apply a little oil to the wood every few months. Above all, keep your arms in a dry place. Have the pan covers forward and the hammers down. Whenever they are handled, wipe them with an oiled rag to remove the salt from perspiring hands. Resist the urge to take the weapons apart, once they are properly cleaned and repaired. ♦ ♦ ♦

A .38 Special Auto

Continued from page 40

record of 200 plus 10 with the gun. Using this automatic, Buck increased his center-fire aggregated average from about 835 to over 860. At the Sparrows Point (Maryland) shoot this year Buck dropped only five points in all the timed and rapid-fire matches and stages of the center-fire matches! He fired a 200 plus 10 (new civilian record) in the timed-fire match, a 196 for first place in the rapid-fire match, and a 100 and a 99 in the timed and rapid-fire stages of the National Match Course, for a total of 866 in the center-fire aggregate.

Since shooting a .38 automatic, Buck Fisher has increased his three-gun aggregate average from 2,535 to 2,570! He has gone as high as 2,590! I predict that he will break many center-fire records using the gun.

What good does all this do you, you may ask, if these guns are not readily available? In my opinion the factory could put out this gun with very little changeover. I am not much of a gunsmith, but now that Mr. Berdon has proven it is possible certainly it should be no great trick for Colt!

I can't emphasize enough the practicability of the converted Super .38. One great advantage in using one is that it improves one's .45 scores. With a battery of three automatics in one's shooting kit, two of them exactly alike except for trigger pull, you can readily imagine the advantages. No more does one go from the auto to the revolver and then back to the auto. There is no new handle or grip to master, no juggling of hammer cocking, just a smooth operation with the empties falling in one neat little pile at your feet. (By the way, you ought to see the looks of disbelief when the boys see .38 Special empties coming out of that gun!)

I can not give any details as to the method Mr. Berdon uses to convert the Super .38 to handle .38 Specials. However, I can predict the end of the revolver in the center-fire matches if enough of these .38 Special automatics make their appearance! If you ever shoot one of these converted .38's you'll holler for one too!

NEXT MONTH *will bring . . . a report of the 1951 convention highlights . . . deer hunting in South Carolina by a dean of outdoor writers, Archibald Rutledge . . . 222 loads by Phil Sharpe . . . a Buffing Wheel stock Finish by C. Calvin Darst.*

1 WAY TO DO IT

By Theodore Fagin

THE COST of living essentials such as pork chops and ammunition keeps going higher and higher and I have a Springfield with a voracious appetite for expensive cartridges. When the cost of pulling the trigger reached fifteen cents per pull I consulted a much-flattened wallet and unhappily faced a gruesome fact. I was going to do no target shooting to keep the eye and trigger finger functioning in co-ordination, and the crows and whistle-pigs in the gardens and hay fields would live, unshot at, and probably die of ripe old age, fat and full of beatitude and good groceries.

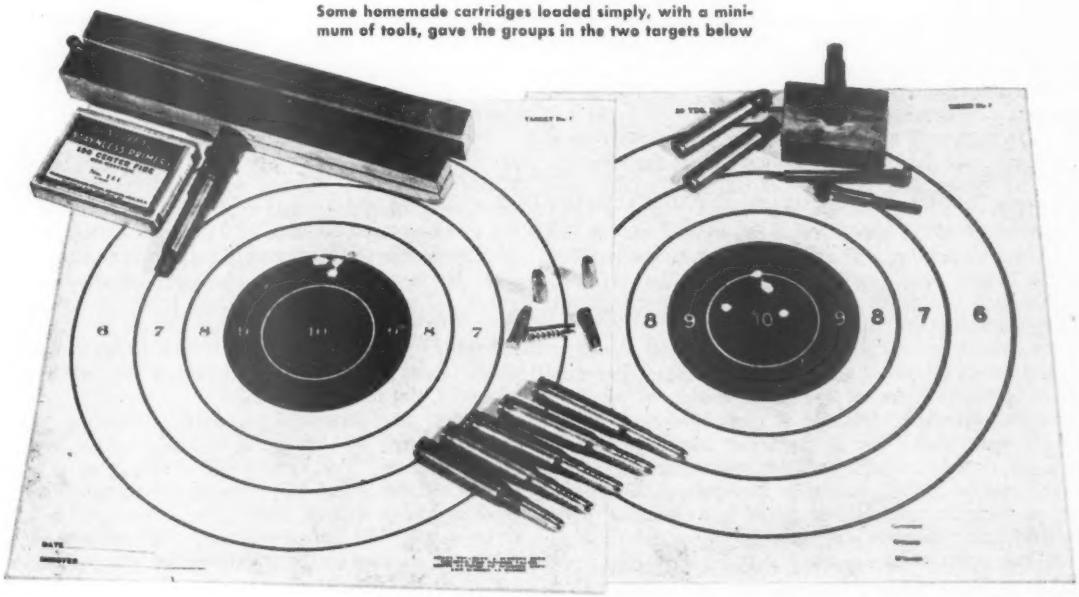
I don't like gruesome facts, so I sat down to do a little cerebrating upon the good old American right to do a little shooting. As a result, an order went forth to Hensley & Gibbs out in San Diego for a double cavity mold casting their number 58 .30 caliber Pope-type 173-grain flat-pointed bullet. Most cast bullets require a considerable outlay in tools, sizers and lubricators, gas checks and so forth, to load, but one needs little indeed to load the Pope bullet. It is used as cast, without resizing, and is unique in that (from my mold at any rate) the three forward bands measure .303 inch, the next three bands are .306 inch, and the wide base band .315 inch.

I have a few tools about the house—a hand drill and several points, a small plane, hack saw, hammer, nails, screws, nuts and bolts. All material I used was scrap.

In order to load ammunition, a means of obtaining uniform powder charges is essential. It is easy to make a good balance for weighing charges. A scrap of wood 2.5 x 8 inches forms the base. The upright post is tapered (need not be but that's the way I found it) and is five inches high, held in place by a long wood screw. The post top is rounded by a knife and sandpaper to permit the beam to swing rapidly. A broken razor blade was set into the post top for the beam to ride on, and two brads were driven along side it to prevent the beam from swinging too far. The beam is a piece of scrap aluminum 7 inches long and a half inch wide, filed to a rounded taper at each end and bent into a downward curve. A cross cut was made in the under side, center, and painstakingly smoothed with a small triangular file, to ride the razor blade; and two 1/8th inch holes were drilled on either side of it to fit the restraining brads. The indicator is a piece of wire bent at one end and soldered across the upper center of the beam, the other end being filed to a long, tapering point. The vertical lines on the post are for reference only, in relation to the indicator. The pans are Pepsi-Cola bottle tops suspended by nylon threads from bead bearings. The base is varnished, the metal parts covered with nail polish. It sounds crude, but it readily registers two particles of Dupont 4759 powder.

Having no weights available, I remembered that aspirin tablets are supposed to weigh 5 grains each. Three tablets were placed in one pan and balanced against some small beads swiped from my wife's sewing kit. One hundred one beads balanced the tablets. These, weighed on a fine scale by an obliging chemist, checked exactly 16.4 grains, or 1/6 grain per bead. With this information, I proceeded to weigh powder charges.

Some homemade cartridges loaded simply, with a minimum of tools, gave the groups in the two targets below



A quantity of fired military cartridge cases were on hand. Now military cases have their primers crimped in, and they are hard to get out. My decapping tool is a heavy nail sawed off to four inches length. A hole half an inch deep was made in the end with a 1/16-inch drill, then the shaft of the drill was broken off and inserted into the hole, making a decapping punch which has driven out a lot of primers. Place the case head over a ¼-inch hole in a wooden block, insert the nail and enter the punch in the flash hole. A few taps with a light hammer will drive out the primer.

After decapping a military primer the brass rim of the crimp remains around the primer pocket and prevents seating new primers. Place the point of a small countersink in the hole and give it a few turns to remove the edge. A thin brass ridge will remain deeper in the pocket, but a small sharp knife blade will cut that out easily. While you're at it, chamfer the inside of the case neck with countersink to remove the sharp edge so that cast bullets may be seated without shaving the bases.

Military cases are also neck-crimped on the bullet, and the crimp remains after firing. I eliminate the crimp and resize the necks at the same time by tapping in the shank of a 5/16 inch machine drill. War-made cases also vary considerably in length, occasionally exceeding the maximum 2.494 inches when the crimp is eliminated. One will, therefore, sometimes find the bolt closing hardly upon a loaded cartridge. When that happens, it will usually cause the bullet to print outside the group. Segregate that case and file back the neck a hundredth of an inch with a smooth file, file off the burr, and chamfer the neck again. Cases will last several score shots each.

Recapping presented a problem. I made a wooden recapper but it wasn't satisfactory, so I broke down and sent a couple of dollars to the Lyman Gunsight Company for an Ideal recapping chamber. This was set into a pair of wooden handles, ala nut-cracker, and it works perfectly. Incidentally, when ordering a priming chamber one must bear in mind that primers differ. Remington and Peters primers are flat-topped, Winchester and Westerns are rounded, and the face of the priming punch should be shaped accordingly.

Seating the bullets is another problem. One can, in a pinch, simply force the bullet home with fingers, but that's doing it the hard way. I made a seater of a piece of brass tubing with an inside diameter of half an inch, and 4¾ inches long. A half inch wooden dowel was cut 2¼ inches long and a 5/16-inch hole drilled through it lengthwise. One end of the hole was worried out a bit larger for a quarter inch so that the case neck will fit into it. Tap the dowel into the tube, enlarged end down.

Get a 5/16-inch bolt with threads long enough to take a couple of nuts, and saw it off 1¼ inch below the threads.

To use the device, put a bullet in the case mouth and insert cartridge into bullet seater, then place the case head on an iron washer so no pressure can be exerted against the primer. Let the bolt into the hole in the dowel until it touches the bullet. Tap the bolt until the bullet is forced into the case half the depth of the base band, then lock the two nuts to maintain that depth.

Several hundred groups were fired, with many powders, primers, and combinations of bullet metal to obtain the data summarized below. I found the Pope bullet to be very temperamental, extremely accurate if meticulous uniformity in loading is maintained, but if the bullet metal, lubricant, or primers are varied it won't shoot for sour apples.

Bullets: Linotype metal, known to assay about 82.5 parts lead, 12.5 parts antimony and 5 parts tin, was used first, with poor results. Later, many combinations of those metals were employed; the accuracy remained poor. In fact, the *only* alloy which gave the desired accuracy was pure lead mixed with 2.5 percent to 3.0 percent tin (in the form of 50-50 solder); with this metal my bullets weigh about 182.5 grains. Due to the softness of the bullet and its limited seating depth, the cartridge must be loaded directly into the rifle chamber; magazine fire cannot be employed. I melt my lead in an old frying pan and pour it into the mold with an iron spoon.

Lubricant: I tried a number of home-made mixtures of beeswax, tallow, and paraffin, also motor water-pump grease, but best results are obtained with about equal parts of paraffin and tallow softened by addition of a little vaseline. With that mixture, accuracy is very uniform and there is no leading. Load your cartridges, then dip the bullets, case deep, into the melted lubricant and set aside to cool. The completed cartridges can be carried in regular ammunition boxes to protect the lubricant.

Powders: Hercules Unique and Dupont 4759. All charges were weighed very carefully and all checking groups fired at one hundred yards. .

Primers: Winchester (large pistol) Number 111, and rifle Number 115 and Number 120; Western Number 8½; Remington Number 9½; Frankfort Arsenal Number 26.

No semblance of accuracy was obtained with any charge of Unique or 4759 when fired with Remington Number 9½ or Winchester Number 120 primers. These very hot primers are apparently too violent for proper ignition of light powder charges.

Unique powder and Winchester Number 111 primers (other large pistol primers would doubtless serve equally well). Charges began at 9.5 grains and increased by ⅛ grain increments. Excellent accuracy was obtained with 11.0 to 12.0 grains. 12.3 grains, however, produced simply phenomenal groups, some small as .60 inch and few over 1.25 inches. With this load, I am convinced, groups exceeding an inch result from variations in holding or sighting. 12.5 grains weight enlarged the groups to around 2.0 inches; 12.8 grains to 4.0 inches; 13.0 grains to 7.0 inches; and 14.0 grains threw bullets off the target.

Unique did rather poorly with Winchester Number 115, Western Number 8½ and Frankfort Arsenal Number 26 primers, the smallest group running 2.5 inches. This fine-grained double-base powder was perfected some fifty years ago for use with the mild primers of that period, and ignition seems more uniform with modern pistol primers than with the stronger rifle primers.

Dupont 4759 shot fairly well with Winchester Number 111 primers, 13.0 grains averaging 1.5 to 2.0 inch groups. Velocities are low, and there is a distinct interval of time between the shot and the impact of the bullet at one hundred yards.

Dupont 4759, fired with Winchester Number 115, Western Number 8½, and Frankfort Arsenal Number 26 primers. Charges under 11.5 grains weight gave considerable vertical dispersion, indicating that they were too light for even burning and pressures. Above 12.0 grains the accuracy improved. 13.5 grains gave superb groups, many measuring less than an inch, few over 1.5 inches. 14.0 grains opened the groups to about 3.0 inches, and 15.0 grains to about 4.0 inches. Results with all three primers seemed about the same; obviously this powder requires rifle primers for uniform ignition. Accuracy is excellent but the velocity is low, my guestimate is around 1,100 feet per second.

I have, after extensive comparison shooting, adopted the load consisting of 12.3 grains of Unique fired with the large pistol primers. The hundred yard trajectory is about three inches and the bullet drop from one hundred to two hundred yards is about sixteen inches; the velocity, therefore, seems to be about 1450 feet per second. Bullets recovered from an earthen backstop are battered beyond recognition, and they are deadly on woodchucks. ◆ ◆ ◆

THE SPOTTING SCOPE -- November 1951

NRA Convention Notes: Harry Linn, of Des Moines, Iowa, vice-president of the NRA since 1949, was elected president at the San Francisco meetings. Alvin Badeaux, of Thibodaux, La., stepped in as vice-president. . . . Results of the well attended business meetings will be announced in the RIFLEMAN next month. . . . Congressman Donald Jackson, of Los Angeles, California, was the featured speaker at the banquet. His speech, titled "The Man and the Rifle" was well received. . . . Three big features were the shows put on by Roy Weatherby, Elmer Keith, and Lt. Col. Walter Walsh. Weatherby lectured on African hunting, Keith on American hunting, and Walsh gave a demonstration with the handgun. . . . Gun-lovers had a field day in the Exhibit Hall at the St. Francis. Talked with the manufacturers and dealers about their favorite equipment by the hour. . . . Attendance averaged over 1,500 people daily. . . . It was a busy week.

Col. Glenn Funk, USMC, Commander of Camp Matthews, California, scene of the High-Power Championships, put on an excellent show for the competitors. The first firing of the high-power matches since 1940 was attended by over 350 shooters. Most of them were Camp Perry veterans and all agreed that Matthews had top ranges. . . . The San Francisco Police range, where the pistol championships were held, is undoubtedly the finest handgun range in the country. Emile Dutil and his assistants are justly proud of the layout which borders on Lake Merced. Heulet Benner, the national champion, when practicing on the range before the national championships, said it was just like shooting down an alley. The three-time champion announced during practice firing that it would take a score of 2625 points to beat him. He retained his championship with a score of 2629. Harry Reeves, the ex-national champion from Detroit, was the only other man to go over 2600. He got 2614. . . . Gloria Jacobs Norton, of Woodland, California, the new national women's champion, asked no quarter from the stronger sex and turned in scores they were envious of. . . . Many of the servicemen at the matches were carrying orders to proceed to Korea after the firing was over. . . . The most promising young pistol shooter at the championships was Sergeant William McMillan, of Quantico, Va. McMillan, a relative newcomer to the shooting game, is regularly finishing among the high winners. He is also a member of the Marine Corps first team. . . . One of the most popular items at the pistol range was the television. Between relays the shooters rushed to the video to see the New York-Brooklyn playoff games and the World Series.

The big surprise of the three shooting title-races was reserved for the smallbore range at Sharp Park. With the best shooters in the country assembled on the range, an unknown by the name of Mason Kline took the national title. The 23-year-old Kline is a newcomer to the game, not having started to shoot in registered competition until 1949. The University of California student, however, shot like a veteran to beat the likes of Arthur Cook, Bill Schweitzer, and the perennial Pacific Coast champion, Robert Perkins. . . . Doctor George Parshall, of San Francisco, was the man primarily responsible for the excellently conducted Smallbore Championships. . . . If you did not take in any of the national shoots or the convention this year you missed some great shows and should plan to be there next year.

Paul Cardinal

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PRIZE WINNING SCORES OF THE 1951 REGIONAL CHAMPIONSHIPS

The 1951 outdoor shooting season brought the addition of NRA high-power rifle regionals to smallbore and pistol regionals which have been established for several years. These high-power regionals were arranged late in the 1951 season and were usually fired in conjunction with state championship tournaments. As a result, there wasn't a standard course of fire for the high-power regionals and it will not be possible to come up with a comparative analysis of the different high-power regional scores. The NRA gave a "free trip to the Nationals" to the winner of each of the high-power regionals.

Of the eleven pistol regional tournaments, U. S. Navy shooters won three: Leonard Rizzolla, the Northeastern with 2595; Luther Yocum, the Far Southwestern with 2526; and Offutt Pinion, the North Pacific with 2579.

The Marines took two of them when Thomas Mitchell won at Harrisburg, Pa., with 2559 and Thurman Barrier repeated to win the Southeastern for a second year with 2573.

Police officers came out on top at two of them with Francis O'Connor taking first at St. Louis, and Harry Reeves firing 2608 for the highest 1951 regional pistol score at Brighton, Michigan. U. S. Treasury Department personnel won two when Ralph Kline's 2573 won at Bakersfield and Bill Toney's 2591 took the silver at Houston.

Civilian pistol shooters won the two remaining regionals with Marko Belovich (a retired Marine) successfully defending his 1950 title in Denver and Gordon Schmidt winning at Boise.

Forty-four small-bore regional shooters won trips to the National Championship tournament. Elinor Bell of Santa Monica, Calif., won the Far Southwestern at Phoenix with 3176-194, which also gave her the top score for lady competitors in this year's regionals.

The Rocky Mountain Regional at Lafayette, Colo., was the tournament in which Air Force Lieutenant Art Cook fired 3191-245 to top all other regional competitors, Donnald Marsh of Aurora, Colo., a 3174-173 as high expert, and Chester Chandler of Rollins, Wyoming, a 3163-181 for high marksman. Since three of the high scores were fired at Lafayette, this would seem to indicate that shooting conditions were good at this regional. Allen Luke of Summerville, S. C., fired a 3166-176 at Middlefield, Conn., for the year's highest regional sharpshooter score.

SCORES OF HIGH POWER REGIONALS

Location	*Date Fired*	*Winner*	*Score*
Blue Trail Range, Conn.	7/21-7/22	G. H. Stekeur	285
Camp Carson, Colo.	8/12	M. Canjar	324
Fort Douglas, Utah	8/18-8/19	D. Hinz	1224
Fort Sheridan, Ill.	8/18-8/19	Dr. W. Otis	610
Helena, Mont.	8/19	L. Parkinson	237
Tucson, Ariz.	8/25-8/26	P. Showalter	476
Winter Haven, Fla.	8/25-8/26	C. Riecken	718
Camp Perry, Ohio	8/25-8/26-8/27	H. LeRoy	827
Camp Roberts, Calif.	9/1-9/2-9/3	E. Shook	479
Portland, Oreg.	9/1-9/2-9/3	E. Dyson	659
Camp Ripley, Minn.	9/9	R. Sandager	483

SCORES OF PISTOL REGIONALS

Regionals	*Winner*	*Expert*	*Sharpshooter*	*Marksman*	*Hi-Lady*
South Pacific	R. Kline	R. Behan	E. Wallace	M. Mandas	G. Norton
Bakersfield, Calif. 5/18-5/19-5/20	2573	2490	2439	2302	2507
Southwest	W. Toney	O. Powell	C. Marks	T. Abercrombie	M. L. Moore
Houston, Tex. 6/15-6/16-6/17	2591	2482	2448	2338	2193
Middle Atlantic	T. Mitchell	G. Lyon	J. Fulling	T. F. Cook	M. Hulseman
Harrisburg, Pa. 7/6-7/7-7/8	2559	2526	2435	2303	2430
Northeastern	L. Rizzolla	R. Robinson	A. Myer	R. Dolley	C. Howser
Poughkeepsie, N. Y. 7/14-7/15	2595	2503	2455	2313	2160
Rocky Mountain	M. Belovich	J. Swanson	H. Garner	L. Robertson	M. Dillon
Denver, Colo. 7/21-7/22	2497	2277	2339	2148	1347
Far Southwestern	L. Yocum	L. Cornett	D. Shilling	F. Bradley	L. Rea
Los Alamos, N. Mex. 8/3-8/4-8/5	2526	2478	2430	2259	2142
Midwestern	F. O'Connor	H. Copt	F. J. Flader	R. Deitemeyer	D. Young
St. Louis, Mo. 8/10-8/11-8/12	2542	2440	2449	2370	2132
Northwestern	G. Schmidt	A. Johnson	D. Lassila	O. Ballantyne	E. Davidson
Boise, Idaho 8/11-8/12	2480	2297	2314	2249	2174
Southeastern	T. Barrier	J. Wade	J. Crosby	T. Little	L. Chambliss
Jacksonville, Fla. 8/17-8/18-8/19	2573	2512	2418	2350	2476
North Pacific	O. Pinion	DeLaubenfels	F. Thomas	F. Ellefsen	E. Buchanan
Raymond, Wash. 8/17-8/18-8/19	2579	2508	2436	2319	2267
North Central	H. Reeves	L. Thomas	A. Morse	H. Severns	A. Matthews
Brighton, Mich. 8/18-8/19	2608	2512	2450	2316	2345

SCORES OF SMALLBORE REGIONALS

Regionals	*Winner*	*Expert*	*Sharpshooter*	*Marksman*	*Hi-Lady*
Far Southwestern	Elinor Bell	M. Sievert	R. Lawrence	B. M. Turner	Elinor Bell
Phoenix, Ariz. 5/12-5/13	3176-194	3153-172	3124-119	3124-137	3176-194
Southwestern	G. Whittington	W. Peale	R. Glover	F. Shiflett	B. J. Grant
Waco, Tex. 6/23-6/24	3187-205	3159-155	3125-107	3143-149	3137-136
Midwestern	R. Spahr	D. Durbin	H. Brueggemann	N. Gillespie	
Des Moines, Iowa 6/30-7/1	3173-205	3155-163	3145-144	3127-140	
Northwestern	E. Kucera	C. Anderson	T. Barnes	W. Boehman	Tressa Dodge
Anaconda, Mont. 7/7-7/8	3159-167	3147-158	3147-158	3130-147	3151-163
Northeastern	Roy Oster	A. Shiffer	A. Luke	R. Clark	H. Lothinger
Middlefield, Conn. 7/14-7/15	3186-188	3157-170	3166-176	3134-148	3152-149
South Pacific	R. Perkins	V. Bailey	H. Bowman	J. Van Nort	R. Tohill
San Francisco, Calif. 7/21-7/22	3189-196	3169-183	3141-154	3147-193	3153-155
Rocky Mountain	Art Cook	D. Marsh	F. E. Smith	C. Chandler	Ann Jenkins
Lafayette, Colo. 8/4-8/5	3191-245	3174-173	3159-159	3163-181	3161-167
Middle Atlantic	L. Moore	R. Oher	C. Imel	W. Whitson	B. Moore
Baltimore, Md. 8/4-8/5	3173-186	3145-176	3133-140	3114-127	3136-156
Southeastern	L. Becker	H. Hartley	J. Fontaine	G. Thomason	Betty Lee
Knoxville, Tenn. 8/4-8/5	3168-178	3156-188	3143-145	3129-123	3144-125
North Central	E. Ingleright	G. Bonnette	A. Sallee	F. Getrost	Neva Seagly
Bristol, Ind. 8/4-8/5	3178-211	3167-159	3159-156	3153-167	3167-182
North Pacific	C. Cater	W. Knopf	M. Pearson	A. Jarboe	M. Bellinger
Seattle, Wash. 8/11-8/12	3189-216	3167-181	3143-134	3150-148	3154-149

NATIONAL INDOOR CHAMPIONSHIPS

In 1936 the National Rifle Association undertook a revision of the rifle and pistol game by the inauguration of NRA registered tournaments designed to standardize courses of fire and match conditions. In subsequent years the outdoor game achieved national recognition. A planned program of local, state, regional, and national matches drew the attention of the general public, and the publicity of those events aided the growth of shooting from coast to coast. There is no doubt that the outdoor rifle and pistol sport has 'arrived' as a national pastime of America during the summer months.

Nationally, indoor shooting has not 'arrived'. With the coming of cold weather each year, rifle and pistol shooting moves indoors and drops from sight nationally.

Each winter the indoor shooting season attracts thousands of shooters. While the NRA has given those who shoot indoors a well-rounded competitive program, it has never set up a national championship meet to compare with the outdoor national title tournaments. The deficiency is being corrected this year. The first individual and team national indoor rifle and pistol championship will be staged in the spring of 1952.

The championships will be fired in sectionals. Thirty locations each for rifle and pistol sectional tournaments will be selected throughout the United States. Teams and individuals will fire in the sectionals and all scores will be mailed to the National Rifle Association. The NRA will rank the sectional scores in one national bulletin and national champions will be declared. The high-scoring individual and team in each sectional will be recognized as sectional champions.

The NRA will furnish all of the national and some of the sectional awards. In national individual competition, the high twenty-five places will be recognized, and one additional award will be added for each twenty competitors over a minimum of five hundred. In national team competition, the high-scoring five teams will be awarded prizes and one additional prize will be added for each twenty teams over a minimum of one hundred.

For each of the sixty sectionals, the NRA will furnish awards for the first five aggregate places, the high woman, and the first three places in expert, sharpshooter, and marksman classes in the sectional tournament. The class awards in sectionals will be increased wherever more than thirty competitors compete in a class, an award being added for each ten competitors over thirty.

In the smallbore championship all firing will be done with any sights at fifty feet. In the individual competition the shooter will fire twenty shots in the prone, kneeling, sitting, and standing positions. The score of the eighty rounds will comprise the NRA sectional championship aggregate, and will be ranked nationally by NRA headquarters to determine the national champion.

In the smallbore four-man team competition each member of the squad will fire ten shots in each of the four positions. The same procedure for determining the championship team will be followed as in individual competition.

In the pistol individual championship, each competitor will fire ninety rounds with

(Continued on page 58)

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STAR MODEL "F"
.22 Long Rifle (Reg. & High Velocity)
Ideal for Hunter, Trapper and Outdoorsman as well as for All-Around Plinking.
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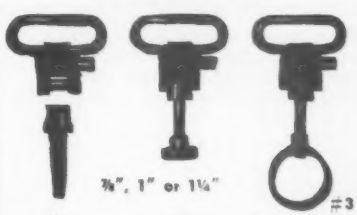

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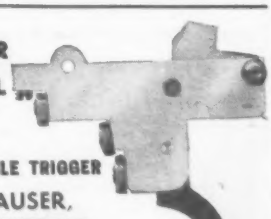

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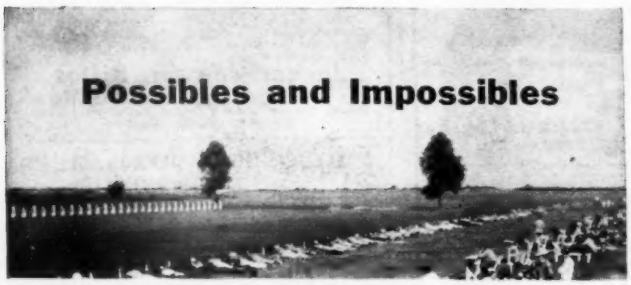
A PAPER FOR PEOPLE WHO SHOOT

Rifle

Remto

VOL. 14, NO. 11

BRIDGEPORT, OVEMBER



What Cartridges Fit What?

What cartridges will fit what rifles, pistols, and revolvers? The answers are contained in a free folder recently made available by Remington Arms Company, Inc. It's called "Remington Gun and Cartridge Adaptations." As an example of the information this folder offers, the 300 Savage cartridge is adapted for use in the following gun models: Remington 81, 722; Savage 1920, 40, 45, 99.

Free copies of the folder are obtainable simply by writing to Remington Arms Company, Inc., Bridgeport 2, Conn., and asking for "Adaptations Folder."

* * *

This time of year shooters want to be sure their guns are in the best possible condition. One thing they definitely want is a smooth action. The best insurance for top shooting performance, they say, is to keep your gun in A-1 shape.

That's why smart shooters keep a can of Remington Oil on hand at all times.

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Copies of Remington's new 52-page book, "How to Dress, Ship and Cook Wild Game," are going fast. In case you haven't already written in for your copy, send 10¢ in coin to Remington Arms Company, Inc., Dept. RN-1, 939 Barnum Avenue, Bridgeport 2, Conn., and ask for the new "How to Dress, Ship and Cook Wild Game" book.

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...nton News

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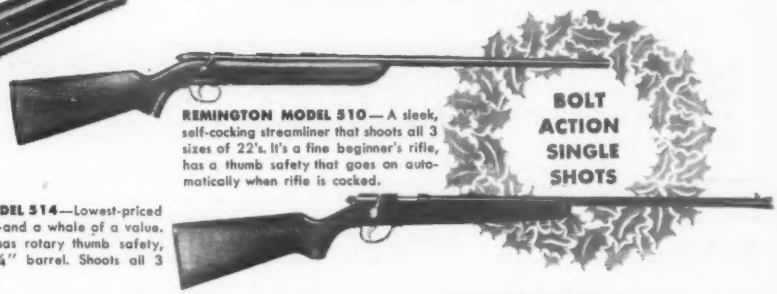
Choose his gift now



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REMINGTON MODEL 510—A sleek, self-cocking streamliner that shoots all 3 sizes of 22's. It's a fine beginner's rifle, has a thumb safety that goes on automatically when rifle is cocked.

REMINGTON MODEL 514—Lowest-priced Remington made—and a whale of a value. It is self-cocking, has rotary thumb safety, walnut stock, 24¾" barrel. Shoots all 3 sizes of 22's.

REMINGTON MODEL 511—Here's a 7-shot bolt action, box magazine repeater that's fast handling and nicely balanced. Corrugated no-slip trigger. Shoots all 3 sizes of 22's.

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(Continued from page 55)

a .22 caliber pistol or revolver at fifty feet. The championship aggregate will be made up of a twenty-round slow-fire match, a twenty-round timed-fire match, a twenty-round rapid-fire match, and thirty-shot match of three stages of slow, timed, and rapid fire. The total score of these four matches will make up the aggregate for the sectional individual pistol championship, also. In the four-man pistol team championships, a thirty-round, three stage course will be fired. For the national championship, the scores will be ranked in the same manner as for smallbore.

As in the case of outdoor regional championships, invitations will be sent out to all NRA clubs to act as hosts for the sixty gallery sectionals. Clubs interested in staging one of the tournaments will be asked to send in a bid. No time limit will be put on the firing of the tournament. For example, if necessary a club may plan to hold a sectional championship over two weekends. The dates for firing of the sectionals will be announced later.

Host clubs will be allowed to add extra matches to the sectional program. The added matches will not be considered in the championship aggregate, however.

The national indoor rifle and pistol championships should prove a boon to many clubs. The best time of the year to get a new man interested in the target shooting game is during the indoor season. He can shoot in his home town without miles of travel. Gallery shoots are usually held in the evening in comfortable surroundings. Rifle and handgun shooters can find plenty of competition and interest on the indoor range during long winter evenings when other sports are not available.

There are still hundreds of thousands of people in the United States who have not discovered the fun of indoor shooting during winter months. The 1952 National Indoor Rifle and Pistol Championships and its attendant publicity should help the shooting game gain many new recruits.

CHANGES IN DCM PRICE LIST

The following new prices have been established by the Ordnance Corps on items available for sale to NRA members:

Ammunition:

M2, .30 caliber ball cartridges, 5 round clips, 1500 rounds to case—$96.25 per thousand, plus 11 percent excise tax; not less than 300 rounds (5 bandoleers) to a purchaser.

M1911, .45 caliber ball cartridges, packed 50 to carton, 600 rounds to a metal can, 1200 rounds to case—$75.00 per thousand, plus 11 percent excise tax. No sale less than 200 rounds.

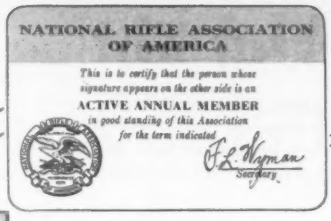
.22 caliber Long Rifle ball cartridges, packed 500 to carton, 10,000 rounds to case—$89.60 per case of 10,000 rounds, tax included. Not less than 1,000 to NRA member or one case to a club.

.38 Special revolver ball cartridges, packed 50 to carton, 40 cartons (2,000 rounds) to case—$50.00 per thousand, tax included. No sale less than 200 rounds.

Ammunition Components (Limit of 2,000 any one item to a purchaser):

M2, .30 caliber 152-grain bullets—$24.00 per thousand.

(Continued on page 60)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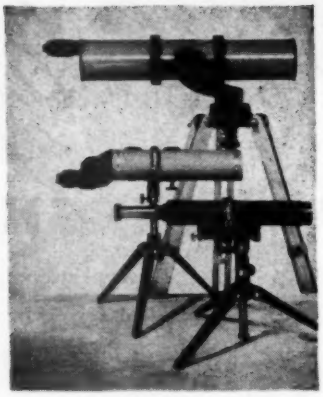

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(Continued from page 58)

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The club secretary may submit a consolidated order for ammunition components or ammunition for NRA members of the club.

WARNING

Information has just been received that Mr. Harvey Berlin who operated the Apex Uniform Company, the Roger-Browning Corporation and the Hallmark-Cromwell, Ltd., all of Newark, New Jersey, was arrested September 18, 1951 by the Federal Postal Authorities, on a charge of using the mails in an alleged scheme to defraud.

NRA members who have forwarded remittances to any of these three concerns without receiving the merchandise requested, should file a formal claim by not later than Dec. 10, 1951, with Mr. Saul Cohen, 786 Broad Street, Newark 2, New Jersey, who has been appointed Assignee.

NEW 50-FOOT RIFLE TARGET

National Target Company, 1225-25th Street, N. W., Washington, D. C., and Wisler Western Arms, Inc., 63 Second St., San Francisco, Calif., have announced that the new 11-bull, 50-foot gallery rifle targets (No. A-17) are now available to clubs. The targets fill the need for a gallery card which has on it a sighting bull and ten bulls for record firing. These targets can be obtained from the National Target Company for $1.50 per hundred, F. O. B. Washington, D. C.

COL. H. P. SHELDON DIES

Lt. Col. Harold P. Sheldon, ret., widely known conservationist, and Life Member of the NRA, died at his home in Middlebury, Vermont on August 31, after a long illness.

Upon retirement from the Army in 1919, after service in World War I, Col. Sheldon became fish and game commissioner of Vermont, a post he held from 1921 to 1926. Subsequently, he was appointed chief conservation officer of the U. S. Department of Biological Survey, and later was made chief of public relations division of what is now known as the Fish and Wildlife Service, Department of Interior. He retired from that post in 1943 to devote more time to writing.

Col. Sheldon was known to readers of the RIFLEMAN, *Country Life*, *Sportsman*, *Outdoors*, *Field and Stream*, and other outdoor magazines for his fictional stories and his articles on shooting technique. Many NRA members will remember his stories which appeared in the RIFLEMAN from 1936 to 1944. Col. Sheldon also wrote a book, *Tranquillity*, of stories and tales of hunting in Vermont and the South.

CHANGES IN TOURNAMENT AND LEAGUE CONDITIONS

At the October 12, 1951 meeting, the NRA Executive Committee voted the following changes in the competitions program, from policies published on page 40 of the September RIFLEMAN:

1) Scores fired in indoor registered league competition will be used in NRA classification. Under the new plan, league secretaries will prepare and mail to NRA a bulletin of league scores at the end of the league season. This bulletin will show the total scores for each competitor who fired in the league. These scores will be posted to each competitor's classification record at the end of the league season. During the league season, a new shooter may establish temporary classification by posting scores fired in a temporary classification book.

2) The NRA fee for registering tournaments has been set at one dollar per day for each competitor in regional tournaments and fifty cents per day for each competitor in state championships and local tournaments. These rates are effective with the coming indoor season.

COMING EVENTS

Tournaments and other important events listed below include all State Championships that have been registered with the NRA. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1951. Only state championships are listed in this column after the publication of the seasonal schedule.

STATE CHAMPIONSHIP TOURNAMENTS

NOVEMBER

1-2-3-4 CUBA—Campeonato Nacional De Arma Corta at Columbia (Havana), Cuba. Mr. A. Anca, P. O. Box 2258, Havana, Cuba.

DECEMBER

1-2 ARIZONA—Arizona State Smallbore Rifle Championship at Phoenix, Arizona. Mr. Glenn Taylor, P. O. 7116, Phoenix, Arizona.

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answers by THE RIFLEMAN'S PANEL OF EXPERTS

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.22 AMMO QUESTIONS

I have just purchased a new semiautomatic target pistol .22 long rifle Hi-Standard HD-M. Will it harm the gun to use Hi-Speed or .22 long ammunition in it?—WILLIAM BILD, Dearborn, Mich.

Answer by Phil Sharpe: The trouble with the .22 long rifle high speed cartridge is in the powder. There is little advantage to a high speed load in a handgun, and the cartridge was thus developed for use in the rifle barrel. The powder does not burn properly in the pistol. Also, some of the high velocity loadings have tougher cases intended for the firing pin blow of a rifle—ignition is sometimes poor in many a well-tuned pistol, adding to the inaccuracy.

As to danger—occasional shooting will not harm your gun, but I would not recommend it as a steady diet. The recoil is heavier, and the blow transmitted to the breechblock is greater, thus continued use means unnecessary energy transmitted to the stopping areas, causing slight upsettage of metal. Your friends are right—you won't blow the gun apart, but that stuff is no way to treat a good target gun.

As to shooting those .22 longs. Why not? They won't hurt your chamber, since they have the same case as the long rifle, but the lighter bullet of the short. Accuracy may not be as good, and there may be slight trouble in feeding—even short recoil in which you get a jam, but since you have them, by all means use them. Longs function perfectly in one of my pet pistols.

RIMMED CARTRIDGES IN MAUSER RIFLES

I want to alter the magazine of a Model 98 Mauser to feed the .219 Donaldson wasp cartridge. I have several books on gunsmithing, and I've yet to find one that describes in detail the method of doing this job. Can someone on your panel of experts explain this job or can you suggest a book that covers it in details?—C. R. BEAULIEU, Providence, R. I.

Answer by Harold MacFarland: I don't know of any book or publication that will give you the dope on altering a Mauser action to feed rimmed cartridges. The system you must use is that followed in the British Pattern 14 Enfield, caliber .303 British. This used thickened, wedge shaped end plates in the magazine box. You can do the same by making auxiliary end plates for the Mauser magazine and sweating them in place with solder. The one at the front end will be made to the width and depth of the box, will be perhaps 5/16 inch thick at the bottom end, and feather out to nothing at the top. The one at the rear will be similarly made, but will be 5/16 inch thick at the top and feather out to nothing at the bottom. The magazine follower must then be cut short enough to work between these end-plate fillers which you have installed. The effect of these fillers will be to so stagger the cartridges in the magazine that the rim of each one will be immediately ahead of the one beneath it, and there can be no jam in feeding.

HALF MOON CLIPS FOR .45 ACP

Where can I purchase those half moon clips that are used to fire the .45 ACP cartridge in the Model-1917 Colt and Smith & Wesson revolvers.—R. MOORE, Tucson, Arizona.

Answer by General Hatcher: Those clips are made by Smith & Wesson, Springfield, Massachusetts, who can supply them retail at 2¢ each with a minimum order of 25¢.

BLUING SALTS

Could you possibly tell me where I can get sodium nitrate and sodium nitrite for bluing a gun?—RAYMOND MYNUM, Great Falls, Mont.

Answer by Harold MacFarland: Any drug store should have or be able to order sodium nitrate and sodium nitrite for you. Normally, they carry it in one pound boxes, and in a chemically pure U.S.P. grade, which is rather expensive. They can order it for you in the ordinary technical or commercial grade, which is satisfactory for gun bluing, and a lot cheaper.

Until you get the hang of caustic-nitrate bluing, I'd suggest you buy the prepared commercial bluing salts as sold by Brownell Industries, Montezuma, Iowa. They call it Oxynate number 7. There are a lot of pitfalls for the unwary in the bluing business, and you may well avoid them with a prepared salts if you follow directions.

Numerous accidents happen annually with shotguns when a 20-gauge shell is accidentally inserted in a 12-gauge chamber and a standard 12-gauge shell is inadvertently inserted and fired. Frequently the shooter does not realize that he has an additional shell in front of his regular load. Gunmakers can identify the cause due to positive characteristics of brass traces together with paper fiber in the break plus a definite area of destruction.

In a recent test some twenty-five shotgun barrels were deliberately wrecked. A normal 20-gauge shell was inserted—see barrel at top—its rim catching in the forcing cone in front of the normal chamber. A 12-gauge shell was then fired. About half of the time the 20-gauge shell was not fired. The tremendous pressure forced it out through the muzzle, ironing out the rim, and always creating the ring bulge—see bottom picture, left barrel. When the 20-gauge shell was discharged, it always blew out a top section of the barrel—as shown in the right barrel of the bottom picture—in the identical spot and about the same position.

Col. Townsend Whelen

The Dean of gun experts has written leading articles for our new Catalog on these subjects:

1. Big Game Rifles & Scopes
2. Target Rifles
3. Pistols & Revolvers
4. Notes on Shotguns
5. Telescopes & Binoculars
6. Useful Information for Shooters
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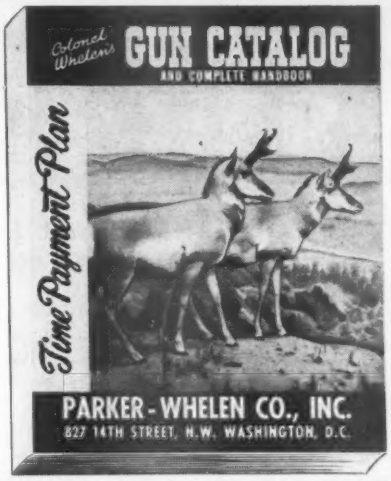

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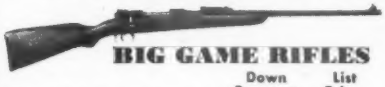

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	Down Payment	List Price
Win. M/70 Bolt Action, Caliber .257; .270; .30-06 & .300 H&H	$32.00	$126.50
Rem. M/721 Bolt Action, Caliber .270 and .30-'06	23.00	92.35
Rem. M/722 Bolt Action, Caliber .257 and .300 Savage	22.00	86.55
Savage M/340 Bolt Action, Cal. .30-30 CARBINE	12.50	49.75
Marlin M/336 CARBINE & Sporter-Carbine, Cal. .30-30 & .32 Spe.	17.50	70.95
Marlin M/336 Carbine .35 Rem.	20.00	80.80
Marlin M/336 Lever Action Rifle, Caliber .30-30 & .32 Special	21.00	83.95
Marlin M/336 Lever Action Rifle, Caliber .35 Remington	24.00	94.45
Savage M/99 EG Lever Action Rifle, Caliber .250-3000 & .300 Sav.	28.00	111.50
Savage M/99 RS Lever Action, High comb, Cal. .250-3000 & .300 Sav.	32.00	127.00
FN Mauser Bolt Action, Less Rear Sight, Cal. .270 & .30-06	35.00	137.50
FN Mauser Bolt Action, same as above with Receiver Sight	37.00	148.75
Win. M/94 Carbine .30-30, .32 Sp.	18.00	72.15

Small Game & Varmint Rifles

Win. M/70 Stand. grade, bolt, Cal. .22 Hornet & .220 Swift	32.00	126.50
Win. M/70 Super grade, bolt-action, Caliber .22 Hornet	47.00	187.70
Win. M/43 Stand. grade, bolt Cal. .22 Hornet & 218 Bee	16.00	63.45
Win. M/43 deLuxe grade, bolt, Cal. .22 Hornet & 218 Bee	19.00	77.35
Rem. M/722, bolt action, .222	22.00	86.55
Sako, bolt, Short Mauser Action, .22 Hornet; .222 Rem & 218 Bee	29.00	117.50
Savage M/342, bolt, .22 Hornet	12.50	49.75

.22 CAL. SPORTING RIFLES

BOLT ACTION:		
Remington 514 Single Shot	$ 4.00	$ 16.10
Remington 511-A, Clip Mag.	7.00	27.65
Remington 512-A, Tubular Mag.	8.00	32.30
Remington 513-S, Clip Mag.	15.00	57.05
Winchester 69, Clip Magazine	7.00	27.65
Winchester 72, Tubular Mag.	8.00	32.30
Savage M-4, Clip Magazine	7.50	30.00
Savage M-5, Tubular Magazine	7.50	30.75
Stevens M-84, Clip Magazine	6.00	24.25
Stevens M-86, Tubular Mag.	7.00	27.95
Mossberg 42-M, Clip-type, deluxe	6.50	25.95
Mossberg 146-B, Tubular Type	7.00	28.95
Mossberg 46-M, Tubular deluxe	8.00	31.65
Mossberg 142, Clip-type Carb.	6.00	23.95
SLIDE ACTION:		
Winchester M/61, Hammerless	14.50	57.70
Win. M/62, Visible Hammer	12.50	49.60
Remington M/121, Hammerless	14.50	57.70
Savage M/29, Hammerless	12.50	49.25

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Weaver K 2.5, 2½ Power	9.50	37.50
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Weaver KV, 2½ to 5 Power	14.50	57.50
Stith Bear Cub, 2½ Power	14.00	55.00
Stith Bear Cub, 4 Power	17.50	70.00

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Weaver K 10, 10 Power	15.00	59.50
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Fecker, 1⅝" Objective	29.00	98.50
Litchert Spot Shot	14.00	55.00

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Bausch & Lomb, 8x30 & 9x35	51.00	204.00
Bausch & Lomb, 7x50	52.50	210.00
Imported Binocular, 7x35	18.00	71.40
B. & L., 7x35 Monocular	19.50	77.50
Monette, 8x30 Monocular	12.50	49.50

.22 CAL. TARGET RIFLES

BOLT ACTION:		
Remington M/37 without sights	$35.00	$136.95
Remington M/37 with sights	37.50	150.60
New Model 52 Winchester, Heavy Barrel, without sights	28.00	111.80
New Model 52 Winchester, Heavy Barrel, with Redfield sights	37.00	147.55
Winchester M/75 without sights	12.00	48.45
Win. M/75 with Redfield sights	16.50	65.25
Remington 513 TR with Redfield Receiver Sight	16.50	65.25
Remington 521 T Jr. Target Rifle	10.50	42.70
Mossberg 144 with sights	8.00	31.95

.22 AUTO. LOADING RIFLES

Rem. 550-A, Tubular Mag.	$10.50	$ 42.30
Win. 63, Take-down Tubular	18.00	73.35
Stevens Model 87, Tubular Mag. Drilled & tapped for Weaver Scope	8.50	34.65
Mossberg 151-M, Tubular deluxe	8.50	34.95

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(Specify Gauge, Barrel Length & Choke)

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AUTO-LOADERS:		
Rem. Sportsman '48, 3-Shot	$29.00	$115.45
Rem. Sportsman '48, 5-Shot	29.00	115.45
Browning, Stand. Wt. Plain Brl.	28.00	112.85
Browning, Light Wt. Plain Brl.	31.00	125.00
Browning, Light Wt. Ribbed Brl.	34.00	137.90
Browning, Light Weight Vent Ribbed Barrel	36.50	146.65
SLIDE ACTION—HAMMERLESS:		
Remington 870 AP Standard	$20.00	$ 80.80
Remington 870 ADL DeLuxe	23.00	92.35
Ithaca 37, Featherlight	22.50	91.16
Winchester Model 12, Standard	29.50	98.15
Winchester Mod. 12, Skeet, Rib	33.00	132.75
Noble Model 40, 12 Ga. only	17.00	67.45
DOUBLE BARREL:		
Fox Model B	19.00	77.00
Stevens Mod. 530, Walnut Stock	17.00	67.00
Stevens Mod. 311, Walnut Finish	16.00	62.95
Winchester Model 24	20.00	80.65
Winchester Model 21, Standard	82.50	329.20
BOLT ACTION:		
Stevens M/258—Clip—20 Gauge	7.00	27.75
Stevens M/59—Tubular—410 Ga.	7.50	30.00
Mossberg 183-D—Clip—410 Ga.	6.00	22.95
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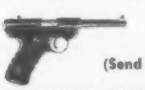

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Colt Target Woodsman	17.50	70.00
Colt Sport Woodsman	17.50	70.00
Colt Challenger	13.00	52.50
Ruger, Standard	9.00	37.50
Ruger, Target	14.50	57.50
High Standard Sport King	11.00	44.00
High Standard Field King	15.00	59.00
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Colt Officers Model	$18.50	$ 75.00
Smith & Wesson Masterpiece	18.00	71.50
S & W Combat Masterpiece	18.00	71.50
Colt Official Police	16.50	65.00
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Colt Super .38	$16.50	$ 65.00
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Dealer inquiries invited.

HEAVY BULLETS

Fred N. Barnes of 1215 South 5th, Grand Junction, Colorado, has now brought out just about what is needed in heavy bullets for the .35 Whelen, .357 Elliot and similar cartridges. He also is producing a good heavy game bullet for the .375 Magnum. Samples of the 300-grain .35 caliber go .358 inch in diameter, and are made from heavy copper tubing with a very short, semipointed form in soft nose.

The .375 Magnum bullet is 350 grains in weight and with blunt, round nose, soft point with enough lead exposure to insure expansion on heavy game. This is the bullet weight that has been needed for many years in the .375 Magnum and also in the Weatherby .375 Magnum. I believe these two bullets will give best average results on American heavy game, and also on all the medium game of Africa, that has yet been achieved from the .35 and .375 Magnum calibers. Many inquiries have come in to us lately for just such bullets for these two calibers and while Bill Henry of Kansas City, Mo., did have some 350-grain soft nose made up there by a gunsmith, no other bulletmakers, either here or abroad, have turned out a 350-grain in .375 Magnum.

I consider these the best bullets Barnes has yet produced for these larger calibers. They will expand and also penetrate, which is what has been needed, and carry the weight necessary for a clean kill on the larger game. They are what I have advocated for these calibers for many years.

In loading for the 350-grain bullet, it is advisable to start a grain or two low and work up in the individual rifle, as many are custom made. I found 56 grains of 4064 made a fine load with the 350-grain in my rifle and 62 grains of 4350 also worked very well. Some rifles may handle a grain or two more and some a grain or two less, but these loads are a good starting point in most all properly chambered and bored .375 Magnums. These are normal loads and should develop around 2100 to 2200 feet. In most rifles, it is possible to send this bullet 2300 or better but it's best to work the charge up from the above starting point in each individual rifle. I went as high as 58 grains 4064 and 65 grains 4350 with no signs of excessive pressures.—ELMER KEITH.

EUROPEAN REMINGTON .35

Under separate cover, I am sending a sulphur cast of a gun chamber. Identification marks on the side of the gun are: Fabrique Nationale D'Armes DeGuerre Herstal Belgique Browning Patent Depose.

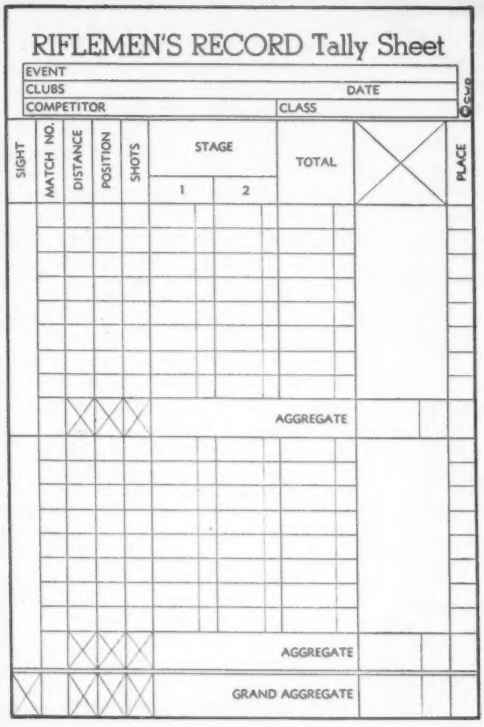
A Remington .35 shell seems to fit the chamber, but the bullet shakes freely in the muzzle.

Would you please tell me what ammunition to use in this gun?—K. HUTTEN, Staten Island, N. Y.

Answer by Phil Sharpe: I believe the rifle you have is intended for the .35 Remington cartridge. That case is used in Europe, and your chamber cast indicates that this is the proper chamber. European practice runs a little careless on diameters. The rifling on the cast indicates a diameter of .360, whereas most American barrels run about .357 in this caliber. I suggest that you try some of our ammunition. It should work and be perfectly safe.

You've Wanted It—You Need It

HERE IT IS !!


RIFLEMEN'S RECORD Tally Sheet

EVENT

CLUBS DATE

COMPETITOR CLASS

SIGHT	MATCH NO.	DISTANCE	POSITION	SHOTS	STAGE 1	STAGE 2	TOTAL		PLACE
							AGGREGATE		
							AGGREGATE		
							GRAND AGGREGATE		

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- For Outdoor Range Shooting
- For All Courses of Fire
- For the Individual Shooter's Self-Scoring
- For Scoring Teams by Rank
- For Scoring Individuals or Teams by Classification, by Place
- For Multi-Match Shoots
- For Inter-Club Shoulder-to-Shoulder Matches
- For Inter-Club Postal Matches
- For Intra-Club Practice Shooting
- For Permanent Record Filing

◀ *ONE SIDE: for the individual shooter's self-scoring.*

OTHER SIDE: for ▶ *individuals or teams by order of finishing and/or classification.*

RIFLEMEN'S RECORD Tally Sheet

EVENT

CLUBS DATE

MATCH NO. SIGHT DISTANCE SHOTS

Pl.	Competitor	Positions, Stage or Match Nos.	TOTAL
Winner			
	Total 1st Team		
Master			
	Total 2nd Team		
Expert			
	Total 3rd Team		
Sharpshooter			
	Total 4th Team		
Marksman			
	Total 5th Team		

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.22 EXTRA LONG

Please tell us if there is or ever was a cartridge longer than the .22 long rifle that would fire in the standard .22 long rifle chamber?—THOMAS ADKINS, Greensburg, Ky.

Answer by General Hatcher: The .22 extra long was a popular number many years ago when Winchester, Maynard, Stevens and other rifles were chambered for this cartridge, which is about ⅛-inch longer than the .22 long rifle. It had a 40-grain lead bullet and was loaded with 6 to 8 grains blackpowder, and later on smokeless loads were added. It was too long to fit the standard .22 long rifle chamber and was finally superseded by the .22 long rifle cartridge which can be fired in guns chambered for the .22 extra long, which is no longer made and has practically become a collector's item.

SPRINGFIELD BARREL ON KRAG

A member of our club has a Krag which he would like to rebarrel with a DCM Springfield (new) barrel. He has asked me to find out if the action is strong enough and if the new barrel can be fitted to the Krag action.—STEPHEN B. WOODWORTH, Winsted, Conn.

Answer by Harold MacFarland: It is entirely practical to fit a DCM Springfield barrel to a Krag action. But you positively don't dare to fit it on there in .30-'06 caliber. You must cut enough off the chamber end of that barrel so that after it is rethreaded and fitted to the Krag action, you can rechamber to .30-40 caliber and have a clean, tight chamber.

The .30-40 Krag cartridge is the most powerful you dare put in a Krag action. It develops a breech pressure of 43,000 pounds. The .30-'06 develops around 55,000 pounds and that single brittle locking lug on a Krag won't take it.

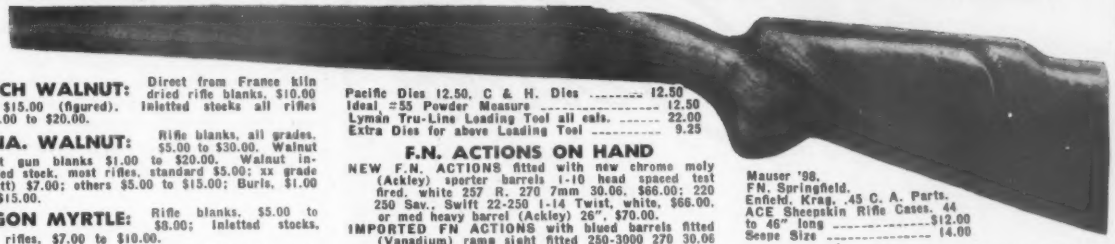
A good machinist will have no trouble in fitting that Springfield barrel to a Krag action. The thread is square with a pitch of ten to the inch, and a diameter of .980 inch.

GUNSTOCK FINISH

Could you tell me the best way and quickest way to finish walnut stocks? Is there some way I could mix varnish and linseed oil? Do you know of anything that brings out beauty of wood as good as linseed oil does? How can you keep walnut from getting too dark? To keep a stock from getting too dark, I use three parts turpentine to one part oil.—JOE SHULA, JR., Kennewick, Wash.

Answer by Elmer Keith: Some varnish and linseed oil can be mixed; but some will not mix. Shellac will mix but shellac will also spot when exposed to rain so is not so good unless used with oil under an outer finish. You must be careful on dark wood not to use too much oil or you will destroy the character of the grain. One of the finest finishes I have seen lately is sold by Herter's Inc., Waseca, Minn., called a Liege finish. It is a plastic. You can give a stock a high polish, some oil, and then use this finish and keep a dark stock showing all the beautiful figure. I have a double rifle by Frase so finished and it is a beautiful job. Also you can use some varnish as a filler and grind down with finest polishing cloth before applying the final finish.

Pennsylvania Black Walnut Stocks & Blanks



FRENCH WALNUT: Direct from France kiln dried rifle blanks, $10.00 to $15.00 (figured). Inletted stocks all rifles $12.00 to $20.00.

PENNA. WALNUT: Rifle blanks, all grades, $5.00 to $30.00. Walnut shot gun blanks $1.00 to $20.00. Walnut inletted stock, most rifles, standard $5.00; xx grade (butt) $7.00; others $5.00 to $15.00; Burls, $1.00 to $15.00.

OREGON MYRTLE: Rifle blanks, $5.00 to $8.00; Inletted stocks, all rifles, $7.00 to $10.00.

APPLE WOOD: Rifle blanks, $5.00 to $15.00 Shot gun blanks, $2.00 to $8.00 Inletted stocks, all rifles, $7.00 to $15.00.

WILD CHERRY: Rifle blanks, $5.00 to $10.00 Inletted stocks, all rifles $7.00 to $10.00.

CURLY MAPLE RIFLE BLANKS fancy $10.00 to $15.00—EXTRA fancy $20.00.
Curly Maple Inletted stocks $15.00 to $25.00

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Lyman Tru-Line Loading Tool all cals.	22.00
Extra Dies for above Loading Tool	9.25

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Ejectors with pins	.75	6.00
Firing pins	.80	6.00
Firing pin rods	.80	7.00
Guard bolts, long, doz. $2.00; short, doz.		$1.25
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Hornady .22 Hornet, 40-45	2.50 per 100
Sierra .22 cal. 55 gr.	2.75 per 100
Hornady .22 H.S., 50-55	2.75 per 100
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Hornady 30 Cal. 150 gr. S.P. and R.N.	4.50 per 100
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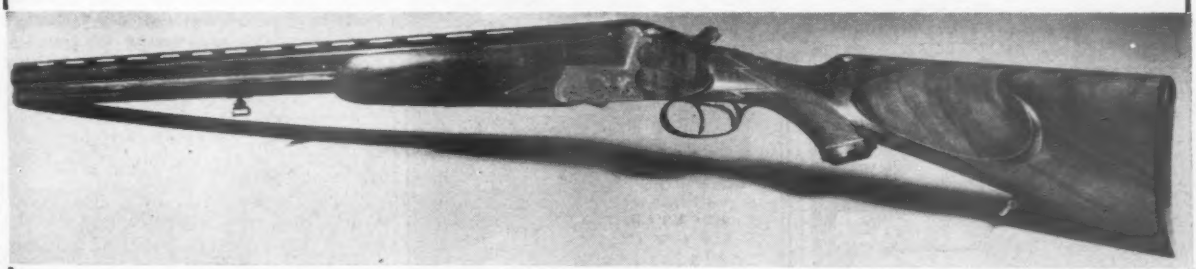

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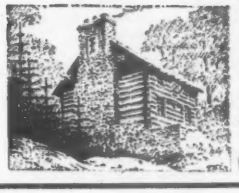

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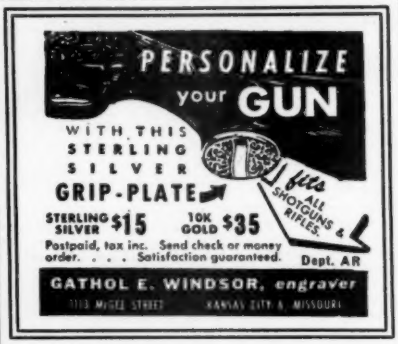
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MAGNUM NOT FOR FRONTIER

What is the beginning serial number of Colt Frontiers suitable for modern smokeless loads, say for rechambering to .357 Magnum?—David B. Nixon, Pueblo, Colo.

Answer by Phil Sharpe: The Colt Frontier is not suitable for rechambering for the .357 Magnum. Since I designed this cartridge, I know what design and material changes were required in S&W guns to handle it. Factory loads develop 44,000 to 48,000 pounds pressure—as much as a high-power rifle. High speed .38 Specials never exceed 25,000.

Colt made a few Frontiers for the .357, but it was a costly experiment for them. The guns would not take it, and even then they almost completely redesigned the action—lightened the hammer blow, rebushed the frame and used a different firing pin, and used special alloy cylinders. Even these improvements failed, and the caliber was withdrawn.

ORTGIES PISTOL

I have a problem in the form of a little German 7.65 mm. automatic pistol marked as follows. On the left side "Deutscke Werke Werk Erfurt," and on the right side "Ortgies' Patent 108031 Germany."

I'd like to know something about the manufacture of the gun, the approximate age and also how the darn thing comes apart. I solved the basic "field strip," but can't figure it out from there. For example, how the grips are removed, since there are no screws and how to get off the combination backstrap and safety, etc.—R. B. Miller, c/o Postmaster, Seattle, Washington.

Answer by General Hatcher: This is a very well made little German pocket pistol made as indicated by the markings at the Deutske Werks, Erfurt, Germany.

Along about 1923 or 1924, after World War I, these guns started coming into the United States through importers and very large numbers of them were imported into this country. The gun is of excellent design and workmanship and is notable for the fact that it has no screws at all in its construction.

This is a very simple pistol to dismount if you know the trick of how to start, but unless you do know this it is almost impossible to know just how to get it apart. To dismount this gun, first withdraw the magazine and draw back the slide to see there is no cartridge in the gun. Next, pull the trigger and release the tension on the firing spring. Then, holding the pistol in the right hand, push in the grip safety release button with the right thumb and while holding this in push the slide back about ½ inch and lift it up. It may then be lifted off the receiver.

The slide will carry with it the striker pin and spring and the little pilot pin which fits inside the striker spring. These should be carefully removed before they drop out of the slide and are lost.

The next step is to remove the grips. These are held on by a spring catch housed inside the backstrap of the gun. To reach this spring catch insert a pencil, cleaning rod or a small stick in through the bottom of the magazine opening about half way up and press back towards the back of the gun when the grips will fall off. You may, of

course, have to feel around a little for the proper place, but that is the way to remove the grips.

The removal of the grips exposes a pin near the bottom of the gun which can be pushed out to release the grip safety. All other parts of the gun may be taken out by pushing out the exposed pins which are in view when the slide is off and the grips are out. To remove the barrel, you first take off the recoil spring and then swing the muzzle of the barrel to the left so that it points at right angles to the frame of the gun when the barrel can be lifted off.

In reassembling the gun there are two points to note. In the first place, the recoil spring which goes around the barrel has one small end and one large end. The small end goes to the rear and is a tight fit on the barrel by folding the spring in place and the large end of this spring is flared out so as to let the barrel pass through easily when the slide is replaced. This spring must be put on the barrel in the proper direction, otherwise difficulty will be encountered in putting the slide back on.

Another trick in reassembling this gun and a very important one is to lock the firing pin spring and its follower in out of the way before trying to assemble the slide. Looking in the top of the slide where the firing spring fits you will see a little cut or depression. To lock the firing pin spring in the assembling position, the small stem or follower which fits into the spring must be pushed forward until it will go up into that semicircular cut where it will lock the spring into place to permit reassembly. If the spring is not locked into position this way the slide cannot be remounted on the receiver, since the spring will project out the rear end.

In pressing this spring forward to lock it be careful not to let the spring point toward the eyes, because if it should slip and fly out it might cause injury. Be sure to hold the gun in such position that if the spring gets loose when being pressed forward it will not do any harm.

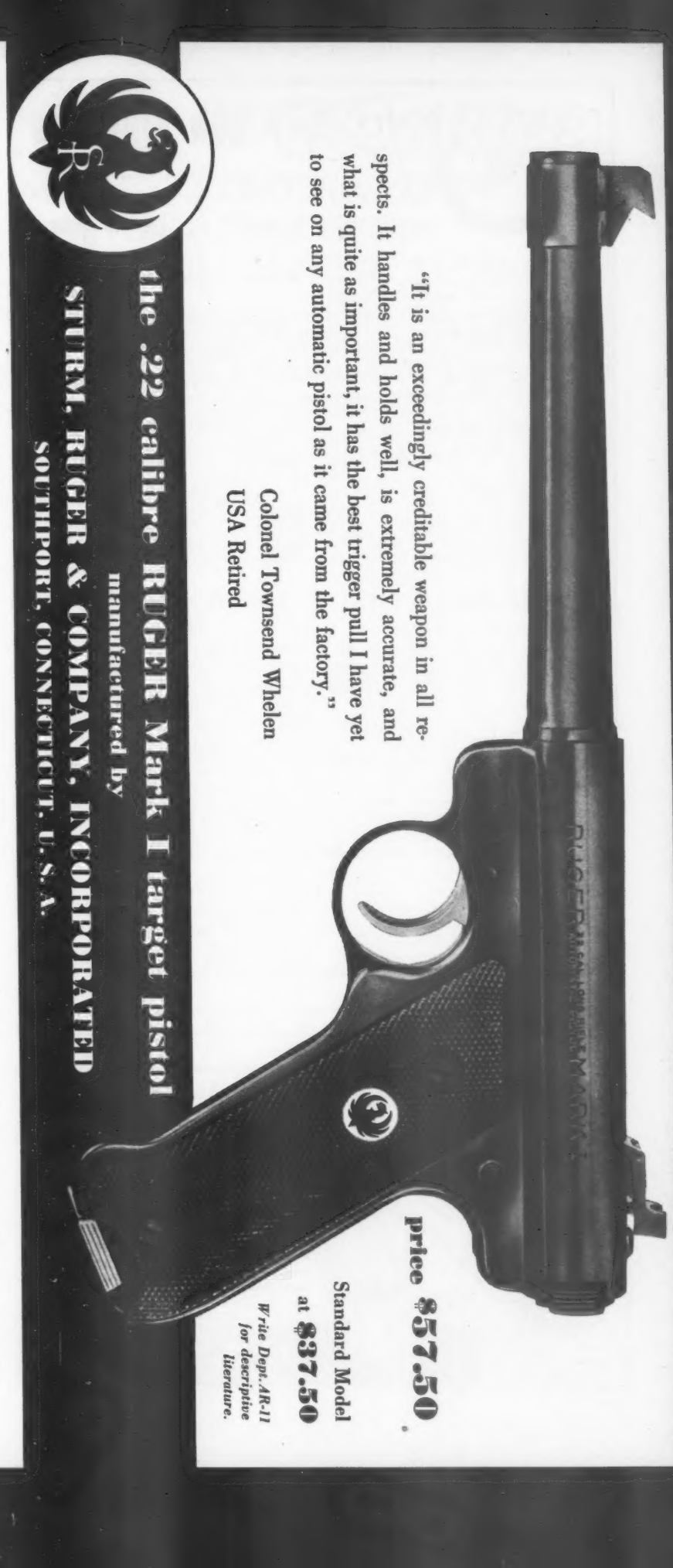
This is a very excellent little pocket pistol.

BURNED RIFLES

I have a .30-'06 Enfield and a 1903 Springfield that were destroyed by fire. Before I clean these guns up, replace the springs and re-stock them, I wanted your opinion as to whether or not it would be dangerous to fire them.—James S. Carroll, Dallas, Tex.

Answer by Harold MacFarland: I'd be very much afraid of those two rifles which were burned in the fire. Any heat that discolors the metal will affect the heat treatment. The fire alone would soften them if they were allowed to cool slowly. Intense heat could burn out some of the alloying elements of the steel, leaving it worthless. Serious heat would have warped or scaled the barrels. The worst danger of all is that water came in contact with the steel while it was hot. This could leave receiver or bolts glass-hard in spots, and brittle.

If the barrels seem good and you contemplate putting those guns back into service, I'd replace the receivers and bolts of both. You can get such parts from John P. Gschwind, 4124 N. Leamington Avenue, Chicago 41, Ill.



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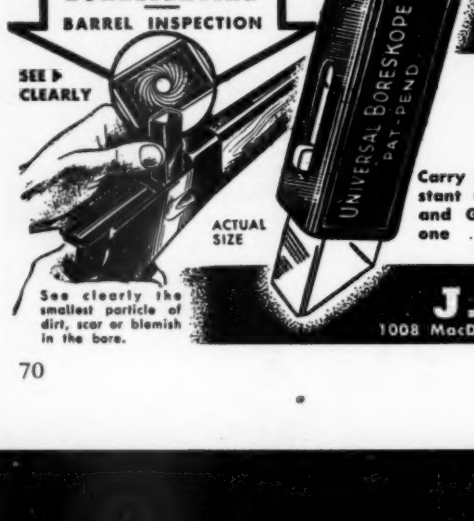

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SHOOTING HEADACHE

Because of extreme susceptibility to headaches I have been forced to use progressively lighter rifle loads and smaller bore shotguns to keep recoil to the point that I can take it.

Recently a 20-gauge shotgun with Cutts Comp has been my best bet for scattergun shooting, but I want to shoot a double gun frequently. Can I reduce to any appreciable extent the standard powder and shot charges in shotguns and get good results? If I loaded 20-gauge shells with the same shot charge and reduced the powder charge until I had about the same recoil as in the pump with Cutts Comp, would I have a quail and dove killing load, or just a crippler?—M. H. Gaskins, Alapaha, Ga.

Answer by Elmer Keith: Any time you cut the shot charge down you reduce your pattern and make a poorer load. Velocity can be cut down some and still make a good short-range load, but I do not believe you can ever improve on factory shotshells for the reason that their new folded crimp gives better and more consistent patterns than are possible with a top wad and handloads.

Gun headaches are caused by two things, muzzle blast report on the ears and the jerk on the back of the neck from recoil. A double gun should give less recoil than the pump and I would suggest you use longer barrels and heavier guns rather than trying to cut down on the load in a 20 bore as it is small enough for consistent clean killing and you don't want crips. Try and get a double 20 with 28 or 30-inch barrels and bored to suit your shooting, then get as straight a stock as you can shoot. The straighter the stock the less jerk on the cheek bone and head in recoil, and a Monte Carlo comb should be a must with you as that precludes the possibility of the comb striking the cheek bone. If you will go to longer barrels with less muzzle blast and heavier guns, and also the Monte Carlo comb stock, I think you will have solved your problems. A good recoil pad also helps.

CHAMBER CAST MATERIAL

We recently received a fine looking chamber cast of a rifle from Walter J. Cumming, Flint, Mich. We learned from Mr. Cumming that the material used for the sulphur cast has several desirable qualities for cast material such as low co-efficient of expansion and minimum shrinkage on cooling. The material is known as Tegul-Mineralcad, a product of the Atlas Mineral Products Company, Mertztown, Pennsylvania. It is available in minimum quantities of standard fifty-pound cartons consisting of ten five-pound ingots. The price of 7¼ cents per pound in any quantity up to a thousand pounds is reasonable.

According to Mr. Cumming, the working instructions for fine chamber casts are to oil the chamber lightly and heat the Mineralead to 265 to 290 degrees F. Above that temperature the material will start solidifying again, but stirring continuously after removing from the low heat source it will come back to a very thin liquid state when it should be poured into the chamber. One nice part about this material is that it comes out of the chamber easily and has no shrinkage. It is one of the easiest and handiest working materials we have seen for a good clean chamber cast. The principal use for Tegul-Mineralcad which is a sulphur and graded silicia aggregate is water pipe jointing.—**J. S. Hatcher.**

8-GAUGE ILLEGAL

I have an 8-gauge 14½-pound old Damascus hammerless L. C. Smith that I would like to use with blackpowder. What amount of blackpowder would you recommend?—A. G. HANAK, New Milford, N. J.

Answer by Phil Sharpe: Regarding that very ancient L. C. Smith of yours with the Damascus barrels, this cannot be used for two reasons. Regardless of the remarks of some of the boys who insist that Damascus strength is much greater than one needs in a barrel, the fact remains that the makers of ammunition, after very extensive testing, have learned that they are unsafe and will not recommend their use with any modern smokeless powder available.

The second reason for not using this gun is more important. Under Federal Law, you cannot use any smoothbore shotgun of larger than 10 gauge. Thus, your 8-gauge is illegal. I cannot recall how long this law has been in effect, but it runs back more than twenty-five years. Thus, even with blackpowder loads you cannot use it. The shells haven't been made for some forty years.

DE-NICKELING PROCESS

Will you kindly give me a little dope on removing old nickel from firearms?—C. R. BOONE, Burbank, Calif.

Answer by Harold MacFarland: The only successful way of removing nickel-plating that I ever heard of is by the electrolytic process. Use a large stone jar, and put into it a solution made by adding a gallon of sulfuric acid, commercial grade, to a quart of distilled water. Do not mix in reverse order. The result can be violent. Fasten heavy copper wires solidly to the gun parts, and connect to the positive terminal of a storage battery. Take a lead plate, equalling in surface all of the gun parts. Fasten a heavy copper wire to it and connect it to the negative terminal of the storage battery. Now suspend both the gun parts and the lead plate in the solution. Leave immersed until all nickel is gone from the parts. It will be necessary to protect the bore by using a tight fitting lead plug in each end.

LOADS FOR AUSTRIAN 8 MM

Could you tell me what powder is used and how much in the 8 mm. cartridge for the Austrian Steyr '95 cartridge? If American powder could be used, is it necessary to use round nose bullets?—JOHN BUNIOWSKI, San Pedro, Calif.

Answer by Phil Sharpe: The 8 mm. Austrian Model 1895 rifle cartridge is loaded with a special Austrian nitrocellulose flake rifle powder. The original cartridge used the heavy round nose and obsolete bullet—some of the loadings during the recent war were observed with a pointed boattail bullet running 198 grains.

While I have no loading data for this cartridge, it could be loaded with any of the various 8 mm. bullets and modern powders; it is not necessary to stick with that heavy 241-grain bullet. Some 25 years ago, Dupont recommended a load of 52 grains of their old IMR 17½ powder with the 154-grain bullet as giving a velocity of 2850 in the Model 95 Steyr.

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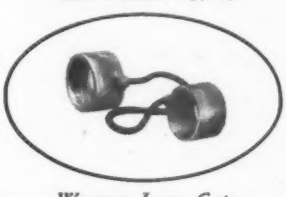

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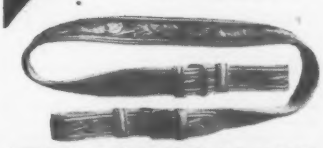

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JAP BARREL THREADS

What is the thread pitch and type of thread on the Jap 6.5 mm. and 7.7 mm. rifles?—Dr. E. E. Killip, Chatsworth, Ill.

Answer by Harold MacFarland: All of those Jap Arisaka rifles use a regular metric "V" thread. The pitch on the 6.5 mm. is extremely close to fourteen. This is easily cut on the average lathe, and a fourteen thread is satisfactory for them.

The 7.7 mm. thread is not standard. It is approximately 17.1 to the inch, and no standard lathe will cut it without special gearing.

DALY DIAMOND SHOTGUN

I have two Charles Daly Diamond Grade shotguns, one weighs 6¼ pounds and the other 7½. I plan to have single selective triggers installed on them. Which gun would you recommend for upland gunning?—Henry DeTal, Trenton, N. J.

Answer by Elmer Keith: You have two very fine shotguns in those Daly Diamond Grade. Either gun should do nicely for upland work if bored right. Choice would depend on how much gun weight you need and can carry all day. Either gun is well worth fitting with single trigger and the Miller Gun Shop of Millersburg Pennsylvania, can do the job for you.

WASP IN HI-WALL WINCHESTER

I have a Winchester single-shot hi-wall rifle in .32-40 caliber at present. I would like to have the following information:

Assuming the rifle action is in good condition, would it be safe to convert it to .219 Wasp or similar caliber?

I have considered seriously of having the barrel relined, since it is a very heavy barrel, rather than having it rebarreled. Do you have a list of men who are qualified to do this relining job, and do a good job? Would a relining job by such a man also include new firing pin, rebushed firing pin hole, and tool steel link? I would also like to know the approximate cost.

Would such a conversion necessitate a test of the action steel and possible heat treatment? The action is a blued one, and shows no case-hardening colors.—John E. Galloway, Harrisburg, Penn.

Answer by Harold MacFarland: A Winchester hi-wall single shot of blued steel is entirely adequate for the .219 Wasp or anything similar. I wouldn't trust the case-hardened actions for these hot-shots.

I can name several shops which are relining these guns. I understand the work is satisfactory, but I can't give you exact cost. At any rate, it is pretty closely in line with the price of a new barrel. Most reliners and barrel men are equipped to bush the firing pin hole, make a new pin and a new steel link at additional cost if you wish. You would have to specify such work when computing cost. Some of the reliners are: Paul Pearson, 3944 N. 40th Avenue, Omaha, Neb.; Tom Mooney, 305 Sandhurst Drive, Dayton 5, Ohio; R. W. Kearfott, 624 Hall Street, Mamaroneck, N. Y.

It would hardly be necessary to test the hardness of your action if it is in good condition, shows no evidence of case hardening, and no evidence of fire damage. The original heat treatment is best left alone.

HISTORY OF BULLSEYE POWDER

What is the history and background of Bullseye pistol powder manufacture?—TED JONES, Los Angeles, Calif.

Answer by Phil Sharpe: Bullseye, one of the oldest pistol powders on the market, began life in 1898 as a Lafflin & Rand development. It was actually the 'screenings' or shifted small chips of Infallible shotgun powder. It proved to be instantly popular, both with handloaders and loading companies. In 1902, Dupont bought out Lafflin & Rand, and soon found that they could not fill the demand for Bullseye with 'screenings' so they developed a fine cut granulation of Infallible. The original screenings were called Bullseye No. 1, and the new fine cut was Bullseye No. 2. Exact date of the No. 2 is not known but is believed to be about 1904.

Dupont manufactured this powder as Bullseye No. 2 until 1912, when the firm was dissolved under the anti-trust laws and the Hercules Powder Company was formed. Since 1913 Bullseye has been a Hercules powder. I have a canister of Bullseye with the Lafflin & Rand label, dating it to prior 1902—it is rough cut, and evidently screenings. I also have a canister bearing a Dupont label. Two or three years ago I chronographed some loads in the .38 Special with the original L&R powder, and it performed with the latest can of Bullseye I obtained sometime since the recent war. A powder must be good to last in the public favor for a half-century or more.

CASE-HARDENED MAUSER

I have a small ring Mauser action, which is engraved, case hardened, and equipped with double set triggers. Is it possible to have the receiver re-case-hardened without affecting the strength of the action, and who can do the work?—CHARLES GENDRON, Lowell, Mass.

Answer by Harold MacFarland: Case hardening a Mauser action is dangerous and I wouldn't tell you who could do the job even if I knew. I just examined a beautiful example of what can happen to those beautiful case-hardened brittle Mausers. The receiver blew to shreds, and the owner will be able to examine it as soon as he gets out of the hospital.

I would suggest that you send that Mauser to the Houston Heat Treating Company, Houston, Texas. Have them draw the hardness and then reheat treat it to approximately a Rockwell C40. You can then give the gun a standard blue finish.

MODEL 1903 CARTRIDGE

What effect does firing the Model 1903 cartridge have on a 1906 barrel? The rifle is Winchester 70, .30-'06.—S. J. EMSWILER, Ekalaka, Mont.

Answer by Phil Sharpe: The original Model 1903 cartridge used the same round-nosed 220-grain bullet of the old Krag. When we switched to the short pointed bullet in 1906, it was found that the neck of the 1906 case was too long for the short bullet, so this was shortened approximately .07 of an inch. The short neck current Model 1906 cartridge will shoot in the Model 1903 chamber, but the obsolete Model 1903 cartridge will not even enter the 1906 chamber—it is too long.

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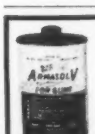

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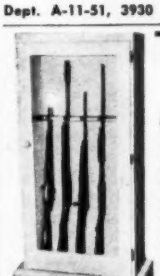

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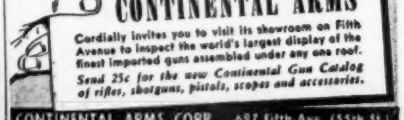

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SHOTGUN SLUGS

Which gauge, 12, 16 or 20, is best for deer when using rifled slugs, both for accuracy and killing power?

What is the best choke for shooting slugs? —ROBERT P. ROONEY, Chestertown, N. Y.

Answer by Elmer Keith: The 12 bore rifled slugs are the most effective of the three gauges on deer and the 20 bore the least effective. There is no difference in velocity or accuracy of the three but the 12 bore slug is the heaviest and by far the best to use on deer.

Choke does not seem to make much difference with rifled slugs as the narrow rotating bands on them are soft lead and easily swage down to fit any degree of choke. I have had about the same accuracy with full choke as with improved cylinder; if anything, the full choke shot the closest groups.

MOUNT FOR ZF-4 SCOPE

What kind of commercial mount will be satisfactory to mount the little German ZF-4 scope on Springfield or Model 722?—LT. MAX TROUT, Ramey AFB, Puerto Rico.

Answer by Harold MacFarland: That German ZF-4 scope is difficult to mount, and you don't have much after it is on. The only mount I know of which will install it is the one made and sold by E. W. Lehman, Chula Vista, California.

TWISTING FORCE ON RIFLE

Why doesn't a heavy bullet in a fast twist barrel rotate the rifle out of the shooter's hands when fired?—WM. E. BULLINGTON, Rye, Colorado.

Answer by Phil Sharpe: There are 7,000 grains in a pound. If you have a 100-grain bullet, it weighs 1/70 pound. Say the rifle weighs 9 pounds. The bullet, therefore, weighs 1/630 of the rifle. The mass of the bullet, when taking the rifling, meets only that 1/630 fraction of the resistance created by the rifle weighing 630 times the bullet.

Moreover, leverage is involved. As you know, it is easier to spin a small top than it is to spin a big flywheel, because the mass of the flywheel has a bigger leverage. The radius of a .30-caliber bullet is .15 inch and the average leverage of that bullet is about two-thirds the radius, or .1 inch, so the resistance to spinning would be comparable to 1/70 pound multiplied by .1 inch. Take the rifle, on the other hand. We may figure roughly that the material in the rifle has an average leverage around the center line of something like an inch. Since the rifle weighs 630 times as much as the bullet, and has a leverage resisting its rotation 10 times as great, the rifle should be about 6,300 times as hard to turn as the bullet is.

This explanation is crude, because there are certain correction factors including the brief time interval, and the normal delay created by the greater mass of the rifle, which absorbs that torque. The torque or twisting of the rifle is definitely present, as you suggest, but in normal guns it is absorbed by both the gun and the shooter, and thus passes unnoticed.

STRETCHED CARTRIDGE CASES

When a cartridge case is resized, the brass often stretches, particularly in the neck from the action of the expanding plug, and may be longer on one side than on the other. If a case is too long for a chamber,

it crimps on the bullet when the action is closed. This in turn greatly raises pressure and usually causes inaccuracy. We believe in full-length resizing all rifle cartridge cases that are to be used in more than one rifle and all cases for lever-action rifles. Then if accuracy and uniform pressures are wanted, the cases should be trimmed to the same length as new cases either with a case trimmer or a file.

Rifle cartridge cases also vary in thickness of the neck from one side to the other and the rifle should have ample neck clearance to take care of the variation or the seated bullet will be crowded over to one side in the chamber neck before it is fired, resulting in inaccuracy. Tight neck chambers are OK for reamed cases with uniform thickness of neck all around the bullet, but rifles for use with standard cases should always have about .004 inch clearance in the neck of the chamber. Chambering over body of case can be quite snug, .002 inch to .003 inch clearance, but the neck should have more clearance, otherwise a case neck with thicker walls on one side than the other will cause the bullet to be seated out of line with the axis of the bore.

Different makes and different lots of cases by the same maker should always be loaded separately, as brass varies from lot to lot in thickness, which in turn means a variation in the internal capacity of the cartridge case. As a check, weigh different makes of cases of the same caliber cases. The variations in the amount of brass used in various cartridge cases can in turn cause considerable variation in the density of the loading, with resultant variation in pressures and velocities, on account of the variation in internal capacity.—ELMER KEITH.

DRESSING UP .30-'06 BARREL

After removing the rear sight of a 1903 Springfield, I find a gouge directly on top of the barrel. Can I machine off enough metal to smooth out the barrel without danger?—FREDERICK L. HARBAUGH, Aurora, Ind.

Answer by Harold MacFarland: The 'gouge' in your Springfield barrel is a spline groove, made to receive a pin which splines the rear sight sleeve to the barrel. You don't dare machine off enough steel to remove that pin groove, so the only answer is to cover it with a band, or else leave it exposed as most users do. The accepted way of covering the groove is to use a short section of the rear sight sleeve for the purpose. Turn and polish it, and slip it on the barrel with the bottom side uppermost. It will make a very good band.

PUNCTURED PRIMERS

What is the cause of punctured primers when shooting normal loads in my Enfield? —DR. P. J. MAJERUS, Fort Atkinson, Wisc.

Answer by Elmer Keith: Three things can cause punctured primers with otherwise normal loads and rifle.

One is a firing pin that is too long. If firing pin protrusion on the Enfield is over .048 inch, it will sometimes puncture the primers, and if over .058, will nearly always puncture the primers.

Another thing that can cause punctured primers is a deformed firing pin that is sharp pointed and not round nosed as it should be.

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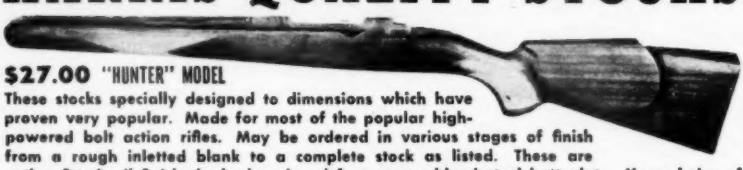

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Our "RANGER" model is of plain efficient sporter design for the economy minded shooter. Action fitted and completely finished with butt plate. Made only for the Springfield, Enfield (straightened guard) Jap 6.5 or 7.7 and Mauser 98—semi or military barrel grooves, no cheekpiece.

Workmanship and materials guaranteed—trimmings and accessories available—catalog—trade discounts.

RANGER	$16.95	SPORTER	$27.00
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HUNTER	27.00	TARGET	32.00

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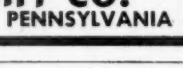

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Still another thing that can cause the trouble is a bolt with a worn or rusted firing pin hole that is much larger than the firing pin. It does not properly support the pin around the circumference and allows the primer to flow back from pressure around the smaller pin. This ruptures the primer cup.

Punctured pimers are dangerous. I have had many Enfield cocking pieces driven back by pressure alone until the cocking piece was over where the comb of stock would be on a normally stocked rifle (just right to hit you on the cheek bone right under the eye).

I would suggest that you have a competent gunsmith check diameter of the hole in the bolt face. I would also have the gun headspaced to be sure it is under 1.950 inch at least, and preferably under 1.945 inch.

DISMOUNTING 721 BOLT

How do you take the Remington 721 bolt apart for cleaning?—JOSEPH ZACK, Brooklyn, N. Y.

Answer by Harold MacFarland: To take that Remington Model 721 bolt apart, grasp the bolt body in your left hand, and with a pair of pliers grip the cocking piece and pull it back against the mainspring until it clears the cocking cam of the bolt; then, while holding it back, turn it out counter-clockwise. This gets the firing mechanism out of the bolt. To dismount the firing mechanism, you will have to punch out a pin. The cocking piece is pinned to the firing pin. Drift that pin out and the whole thing will fall apart.

GUARD AND FLOORPLATE FOR 721

Where can I obtain milled guard and hinged floorplate for a 721 Remington?—ED REICHON, Albion, Mich.

Answer by Harold MacFarland: Write Moye W. Stephens Co., 246 South Towne Avenue, Pomona, California. The cost is $9.85.

G-43 VS M1 GARAND

I would like to have you settle a little argument between my buddies and me. It's about the U. S. Rifle caliber .30 M1. The argument is that I say the Germans had a semiautomatic rifle that would compare with our M1 in all respects. Would you please settle this argument for us in detail.—CPL. D. H. LAUER, Camp Atterbury, Ind.

Answer by Phil Sharpe: During World War II the Germans had the Gewehr 43 (rifle) and Karabiner 43 (carbiner). The only difference is about two inches of barrel length. These guns were gas-operated semi-automatic, built for the standard German service cartridge, variously known as the 7.92 and 8 mm. And there the comparison ends.

Although a fine rifle, the 43 cannot be compared with our M1. It is fed from a 10-shot detachable box magazine. In reliability, accuracy, general handling performance, the M1 is far superior. An effort was made at Aberdeen to put these 43s through the standard U. S. acceptance test which the M1 passes. The K-43 never even got started. It would not take the mud test, the dust test, the corrosion (salt water) test, or any other of the numerous tests.

When the M1 first came out, I ran tests for functioning. I forget the time, but two loaders were kept busy, and in about two hours or so we burned up approximately 1,000 rounds of ammunition, just as fast

as I could shoot from the hip, throwing bullets into a sandbank. When we finished, the smoke from a burning stock was almost unbearable, but despite the fact that the gun would fire itself from the heat, it was still working. I have put many a K-43 out of action in less than 100 rounds of similar test work.

AMERICAN POWDERS FOR CORDITE CARTRIDGES

We have found that 4064 seems to work best in most of the large bottle-neck British elephant cartridges. For the straighter case types, 3031 does a good job, and 4895 powder is also excellent.

As a general rule we have found that a heavier charge of American powders than the original Cordite load is needed to bring the heavy bullets up to normal velocity. For instance, the .450-400 3-inch case .400 Jeffery is loaded in England with either 55 or 60 grains of Cordite and the 400-grain metal-jacket bullet. When reloading the cartridge we have found that a charge of from 63 to 67 grains seems to develop normal velocities, making all the double rifles we have tested shoot both barrels to the same point of impact within proper range for the charge. Some tightly chambered rifles required only 63 grains of 4064 while others required 67 grains to bring both barrels to the same elevation and point of impact.

Hi-Vel No. 2 is also a powder that can be used in these big hulls but is hot, similar to Cordite, and does not bulk up as well. We prefer I.M.R. No.'s 3031 and 4064. These cool-burning American powders will give longer barrel life with permissible pressures than will Cordite.

With all double rifles, keep the pressure down as low as possible compatible with making both barrels group together. No high pressure should be tolerated. Fired cases must extract and eject freely or excessive wear on the hinge pin and extractors will result. All fired cases should be full-length resized and trimmed to proper length in reloading for any double rifle. Bullet weights should, if possible, be the same as those used in regulating the rifle, as you then have but the one variable to work against, namely the powder charge.—ELMER KEITH.

TROUBLE WITH .30-'06 SAFETY

Can you tell me how to improve the operation of the safety on my 1903 Springfield? It is difficult to rotate from the 'Ready' to the 'Safe' position—ARTHUR H. ANDERSON, Barnum, Minn.

Answer by Harold MacFarland: The trouble with your Springfield safety undoubtedly arises from the fact that someone has stoned either the sear or the cocking piece, or both, to achieve a better trigger pull. With the surface of these parts dressed off, the cocking piece comes to rest in cocked position just a bit too far forward for the safety to turn into it readily and lock it. For safe operation of the weapon, the safety must cam that cocking piece back a certain amount, but 1/16 inch is too much. The amount should be nearer 1/32 inch.

You have a choice of two corrective measures. You can replace the sear and cocking piece with new ones; or you can grind back the two little notches which are on the top

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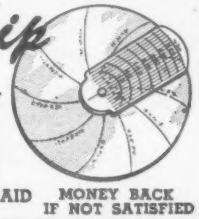

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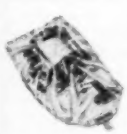

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of the cocking piece, and into which the safety engages. Each of the notches should be cut back the same amount, and that amount should be somewhere between 1/32 inch and 1/64 inch. Note that the right edge of these notches has a backward rake or bevel. That bevel must be retained and carried back with the grinding. Don't cut the notches back so far that the safety will turn into them without camming the cocking piece back a little. If you were to do this, the weapon could fire accidentally when you release the safety, if you happen to trip the trigger while the safety is on.

The cocking piece is very hard and those little notches are difficult to cut back. A file usually will not touch them. The only effective cutting tool I have found for them is a tiny cutting wheel (abrasive) mounted on a high-speed hand grinder.

POWDER INFORMATION

Can you give me the numbers of the present-day powders that replaced the old powder numbers? Can they be loaded according to the loading data given for the old numbers in your book?—H. W. McMULLEN, Creston, Iowa.

Answer by Phil Sharpe: About the time of World War I, the progressive burning powders, known as Improved Military Rifle series appeared, replacing the Military Rifle series. At that time, the standard bullet jacket material was cupronickel, and these caused plenty of fouling. During the War, loose tinfoil was added to artillery powder charges to reduce fouling, so Dupont incorporated some tin into the powder composition and added "½" to the powder number to distinguish it. Thus IMR 15 became 15½. There were a few exceptions, with powders developed containing tin for which there was no counterpart, such as 1204, 1147, etc., so these acquired whole numbers.

The development of improved gilding metal jackets solved the fouling problem and because the tin powders left considerable black barrel fouling, they were abandoned in favor of the current series. The current powders are not exactly the same but they have the same characteristics in general.

Number 3031 replaced 17½. Number 4064 replaced 15½. Number 4198 replaced 25½. Number 4320 replaced 1147. Number 4227 replaced 1204. As to 4350, the newest and slowest burning number had no counterpart in the old IMR series, but might be called a replacement of the old Military Rifle Powder No. 10.

Loading data cannot be swapped in any powders. Since the "½" powders contained some metallic tin powder, they required a slightly heavier charge than the current types. Since Dupont prepared dope on the .30-'06 with the Frankford Arsenal corrosive primer only, recommended charges should be cut three grains at the top levels when using the new noncorrosive primers.

PISTOL ADVICE

I shall greatly appreciate your opinion as to which (Browning, Walther, Mauser, Sauer or Beretta) is the best European automatic pistol.—JAMES L. COSTELLO, Brooklyn, N. Y.

Answer by Harold MacFarland: I think the Walther, in Models PP and PPK, is the best pocket pistol to come out of Europe. I don't like the Walther P38. My opinion is based on good peacetime, prewar pistols.

As the war progressed, the quality of all of them steadily deteriorated until they were very rough.

The Mauser has been made in so many different models that you can say almost anything about them. Most of them, along with the Sauer, are well made and reasonably certain of functioning, but for shooting accuracy they aren't in the same class with a PP Walther.

The Beretta is Italian, and for an Italian gun is unusually well made. They are simple and sturdy, and I like them. The only thing wrong with the present import of Berettas is the prohibitive price. They cost as much, nearly, as a Colt, and you still have that repair parts problem.

The Belgian Browning is a good gun. I'd say there is nothing to choose from between it and a Colt in the matter of quality.

If I wanted to purchase a good pistol, I would buy a Colt Commander in either 9 mm. Luger or .38 caliber. Then, when you want repair parts, you know where to get them.

ANOTHER .240 WILDCAT

R. L. Jackson, Box 726, Panama City, Florida, has made up a "Fire Ball" on a .250-3000 Savage case, necked down to 24 caliber, that has turned out to be an extremely hard-hitting varmint. The formed case has a 28 degree shoulder and a taper of .025 inches, with original neck length, and holds 46.8 grains of Dupont No. 4350 powder when completely filled.

The formed case, loaded with 41 grains of Dupont No. 4064, and 65-grain soft-point bullet made with Gardiner jacket, fired through a four groove thirty-inch Ackley barrel with a twist of one turn in thirteen inches, pierces 9/16-inch hot rolled steel plate at 100 yards.

The rifle is very accurate, and local enthusiasts are very high in their praise of Mr. Jackson and the rifle produced by his patience, research, and meticulous fabrication. — PHILIP A. ROLL, Panama City, Florida.

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American Arms Company, 33 North LaSalle Street, Chicago 2, Illinois, has been appointed exclusive distributor in the United States for Hammerli hunting and sporting arms. The Hammerli commercial arms factory in Lenzburg, Switzerland is world famous for its superb match rifles and pistols. Hammerli hunting arms are custom made with the same precision as Hammerli match arms. For information on Hammerli match and hunting arms, contact the American Arms Company.

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catalog showing the items that they job in addition to items of their own manufacture. A copy of the catalog can be obtained from the company by sending 25¢ to help defray the cost of printing and postage; the sum will be credited on the first order received.

Sterling F. Ebel, 3826 Budlong Avenue, Los Angeles 37, California, has been making some nice 6 mm. or .240 caliber bullets with RCBS dies. The samples received in weights from 60 to 85 grains have performed nicely in a .240 Cobra and a .243 Ackley Express. The lighter bullets, made with thin jackets, are extremely explosive and destructive on varmint. Shooters may be interested to learn of Ebel, since bullets for the .240 are reasonably hard to obtain.

Firearms International Corp., 6521 Kerby Hill Road, Washington 20, D. C., has just issued a new sporting arms catalog for 1951-52. Gratis to readers of the AMERICAN RIFLEMAN, the catalog covers the well-known FN Mauser actions and rifles, as well as a line of domestic and imported shotguns, pistols, revolvers, sights, parts, accessories, and other items.

A. B. Harris, 515 Broadway, Gary, Indiana, reports that silicone has been added to the Birchwood finish he features and that it now seems to produce a smoother, glossier finish than the previous type.

The Birchwood Gun Stock Finish is easily used, producing fine finish in a short time. The material dries almost immediately on application, and from four to six coats only are required to give a durable finish. Birchwood wax adds luster to the finish and can be applied effectively for rust protection on steel.

James D. Adair, formerly located in Roseburg, Oregon, has moved his shop to Route 3, Box 410, Bremerton, Washington. He is again in production on sporting and target rifle barrels for the trade and these will be available as long as steel is obtainable.

Stoeger's, 507 Fifth Avenue at 42nd Street, New York, New York, has issued the 1952 edition of "The Shooter's Bible" (No. 43). In 415 pages the catalogue contains information on the firearms, ammunitions, parts, and accessories available from the firm. Besides a series of sixteen articles by authorities in the gun field on hunting, shooting, and gun maintenance, the catalog features a complete line of foreign arms—including Mannlicher-Schoenauer rifles and carbines. The gun mechanic, the sportsman, the gun crank will find many items for him contained in the book, which is available from the Stoeger's firm for $1.25.

Cartridges, catalog No. 3 and ammunition reference digest put out by Philip Jay Medicus, 18 Fletcher Street, New York 38, N. Y., is an invaluable little 80-page volume for the shooter and collector. Besides listing the cartridges Medicus has for sale in 40 pages, the book also contains a list of past and present headstamps, a ballistics table of metric, American, and British cartridges, a list of modern guns and the cartridges for which they are adopted, and illustrates many antique weapons and cartridges. It is available from Medicus for 50 cents.

Christy Gun Works, 875 57th Street, Sacramento 16, California, has grown steadily since its start in 1929 in a small backyard garage. Now it occupies a large modern building with over 28,000 square feet of

floor space and up-to-date modern equipment, including a 375-foot underground range for testing guns and ammunition. Mr. Christy states that his aim is to be to the gunsmithing trade what the parts house is to the garage business. His new catalog No. 51 contains a very impressive list of tools and gun parts, and in addition, has much interesting information in the way of ballistic tables, etc. It can be obtained direct from Mr. Christy for one dollar.

Oretech (Oregon Technical Institute) at Klamath Falls, Oregon, operated by the State Board of Education, offers a two-year course in gunsmithing which at present has an enrollment of 70 full-time students.

The course is divided as follows: Gunsmith Basic Information, 10 term hours; Gunsmith Technical Information, 35 term hours; Machine Shop, 30 term hours; Gunsmith Welding, 10 term hours; and Gunsmithing Shop, 105 term hours.

This six-term (two-year) course should enable the student to acquire the necessary skill and knowledge of gun mechanics, custom stock work, and metal, to work for a Custom Gunsmith. Completion of the course gives the student basic preparation for the job of Custom Gunsmith.

Taper-Lok scope mount manufactured by Thomas Arms & Mfg. Co., 7727 St. Albans Street, Richmond Heights, St. Louis 17, Mo., is a bridge mount supporting two one-piece seamless rings incorporating special collet design which grip the scope tube over the entire circumference. With a self-contained taper pin locking system, the mount permits instant removal and replacement of the scope. Also, the mount contains an adjustable peep sight which is ready for use upon removing the scope. Selling for $15.00, complete with spanner wrench for initially tensioning the locking rings, the mount can be fitted to all factory rifles drilled for scopes with only a screwdriver.

Wright Gun & Tool Company, Bloomsburg, Pennsylvania, because of priority orders for high precision parts on defense contracts, has been forced to discontinue the acceptance of any further orders for their chambering reamers, barrel vises, action wrenches, gauges, dies, etc.

Serven Gunroom, P. O. Box 1777, Santa Ana, Calif., has recently published accessory and gun parts list No. 32. The list includes parts for many types of antique guns to include muzzleloaders, Colt and Remington percussion pistols, Sharps and .45-70 Springfield rifles. Each item available is listed together with the selling price.

BOOK REVIEWS

MAJOR NED H. ROBERTS AND THE SCHUETZEN RIFLE

Edited by Gerald O. Kelver

While Ned H. Roberts, who figured in the development of several cartridges used today, and gave his name to the .257 Roberts, was alert to every development in the firearms field, Schuetzen rifles remained his first love, and he wrote frequently of them, both for *Hunting and Fishing*, of which he was gun editor, and for the *American Rifleman*. Gerald O. Kelver, secretary of the American Single Shot Association, who corresponded frequently with Roberts during

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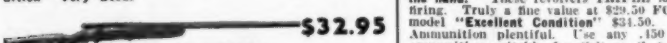

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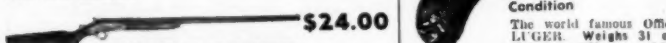
Bolt action H&R REPEATING shotgun. 3 shot. 48½ inches overall. Tubular magazine contained within forestock. 28 inch barrel. Chambered for 2¾ inch shells. Weighs 7¼ lbs. Side, thumb operated safety. Hand rubbed, oil finished American Walnut stock. Hard rubber butt plate. Perfectly balanced, this fine gun ideal for all types field shooting.



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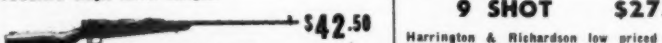
12 and 16 gauge has 28 and 30 inch barrels. 20 gauge—26, 28 or 30 inch and .410 26 or 28 inch. Made by H&R. Will not "shoot loose." Stock is same as "Gamester." Automatic ejector. Weighs 5 to 6½ lbs. depending on gauge. Considered WORLD'S LARGEST SELLING single barrel shotgun.



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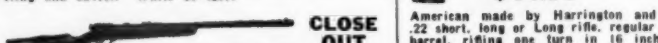
Early manufacture! Condition about "Very Good." 25" barrel. Weigh 7 lbs! Powerful, accurate, 5 Shot Arisaka Bolt Action rifles converted to .300 Savage. Proof tested, fired with overload! Made for use with pointed bullets. Suggest pointed or semi-pointed (Winchester or Western Silvertip bullets preferred) as some hollow point or flat nose ammunition will not feed satisfactorily. SPORTER length. Military sights. Bolt handle beat down. New sling and swivel. While 30 last!



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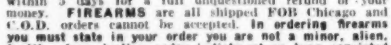

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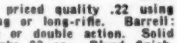

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the later years of his life, has gathered into a slim, 99-page volume, Roberts' writings on the single-shot breechloading rifles used in target shooting from about 1880 to 1910.

The book is a generous tribute to the author but it is also an excellent account of single-shot rifles. Not only does it explain the manner in which their loading and firing at 200 yards offhand in match target competition, but it contains information about some of the men who came to prominence in the manufacture and shooting of them—F. J. Rabbeth, Harry M. Pope, A. O. Zischang, George C. Schoyen, W. M. Farrow, A. O. Niedner, and others. Among the rifles discussed in the book are the Ballard, Bullard, Remington-Ryder, Sharps, Maynard, Stevens, Stevens-Pope.

A good bit of target shooting history is also contained in this little book, which explains so well the schuetzen game as it was practiced years ago and gives detailed information on loads, bullets, lubricants, and accessories used in it. Anyone who is interested in learning every aspect of the target game using these fine single-shot arms of yesterday, which were the object of so many sportsmen and shooters, should obtain this book, both for the information contained in it and the spirit which prevades the writing. —J. A. HARPER.

(Published by and available from Gerald O. Kelver, P. O. Box 49, Osceola, Indiana. 99 pages, illustrated. $3.00)

TEXAS GUN LORE

By Carrol C. Holloway

This bit of regional history should interest a lot of folks. In it are such subjects as the Texas Colt revolver, the founding of the Texas republic, the Texas rangers, cattle empires, outlaws—every aspect of Texas history in which guns figure. And since the Spanish exploration of the area which was to become the Lone Star State ante-dated settlement and development of the Eastern seaboard of America, Texas contains a lot of gun lore.

The book treats at length three subjects: 1) the social significance to Texas history of important developments in the firearms field; 2) extensive, detailed accounting of those persons and organizations which did or attempted to manufacture weapons for the Confederacy during the Civil War; 3) western Americana on the cattle business and the outlaws notorious during the settlement of the West.

While all of the book will be interesting to RIFLEMAN readers, that section on the manufacture of weapons for the Confederacy is the contribution the book makes to arms history. The author writes at length on the Dances, revolver manufacturers; Whitescarver, Campbell & Co., and Billups & Son, rifle manufacturers; Tyler, home of Short, Biscoe & Co.; Sherrard, Taylor & Co., a firm which contracted to make revolvers for the South.

Even if one is not particularly interested in manufacture of guns in Texas during the Civil War, he will get a lot of enjoyment from the book, particularly that section which relates Texas history to the weapons that figured in it, from the Texas revolution to the end of the Texas republic.—J. A. HARPER.

(Published by The Naylor Company, San Antonio, Texas, 238 pages, illustrated. $2.95)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rates: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: Nov. 1st for the Dec. issue. Ads received after Nov. 1st and not later than Dec. 1st will be inserted in the Jan. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first-class mail which does not carry a *complete* local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

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9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

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WALNUT BLANKS: RIFLE $1.50-$2.50. Shotgun $1.25. E. D. Bray, Winfield, Iowa.

FREE COPY OF AMERICA'S LARGEST GUN list. Published monthly. Write—Shotgun News, Columbus, Nebraska.

NEW MODELS, 5E, 4E, ITHACA TRAP, Mod. 70's, Mod. 721's, 722's, all calibres 99 Savage's. Specify. No trades. Discount to dealers on 70, 721, 722, 94, 99. Special, excellent Mod. 43 Bee $49.95. Mod. 12, trap, $179.95. Mod. 24, $67.95. Mod. 94, .30-30 $59.95. Mod. 64, .30-30, $79.95. Overly's Gun Rack, Ephrata, Penna.

LARGE COLLECTION OF AMERICAN AND European antique arms. Send 25¢ in coin for our 19th catalog, issued soon. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass.

BRITISH DOUBLE RIFLES, HAMMER AND hammerless, new and used, couple with telescopes; few single-barrel with hammers; List from Dr. Geo. R. Hays, 8 No. 8th Street, Richmond, Indiana.

SAVAGE 23-D, REDFIELD JUNIOR MOUNT, G-4 scope, sling, 100 rounds, perfect, $65.00. S&W .32-20 M. and P., holster, v.g., $40.00. Radom M35, 9 M.M., holster, good, $25.00. Stamp for list—many new, used guns. Check or M.O. Woodruff Hdwe., Woodruff, Wisconsin.

GUN CABINET, KNOTTY PINE, BEAUTIfully finished and appointed. 5 or 6 guns $77.50. Send 25¢ coin (deduct first order) for Catalogue, complete line Gun Cabinets, Gun Racks. Knox Wood Products, Knoxville, Iowa.

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BIG CATALOG, ANTIQUE GUNS, $1.00. 475 photographs. Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

REVOLVERS: .455 SMITH AND WESSON Service Models, fully guaranteed, only $29.50 each. Duty free, limited supply. Send remittance for immediate shipment. Dealers' inquiries invited. Sportsmen's Wholesale Supply, 2098 St. Catherine St. West, Montreal 25, Canada.

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NEW RIFLES, IMMEDIATE DELIVERY, prepaid and insured. Winchester 70 Bolt, .22 Hornet, .220 Swift, .257, .270, .30-'06, .300 Magnum, .375 Magnum, $126.50. Winchester 70 Super Grade, same calibres, $187.70. Winchester 94 carbine, .30-30, .32 Special, $72.15. Winchester 64 Lever rifle, .30-30, .32 Special, $95.80. #64 Deluxe, .30-30, .32 Special, checkered, sling, $112.90. Winchester 71 Lever .348 calibre, $104.90. #71 Deluxe .348, checkered, sling, $121.30. Winchester '07, autoloading .351 calibre, $146.65. Winchester 43 Bolt, .218B, .22 Hornet, .25/20, .32/20, $63.45. 43 Special Grade, same calibres, $77.35. Savage 99 E.G. Lever .250/3000, .300 Savage, $111.50. 99R Beavertail forearm, $114.50. 99 RS Beavertail, Redfield, micrometer, $127.00. Remington 721 Bolt, .270, .30-'06, $92.35. 721-.300 Magnum, $103.90. Remington 722 Bolt .222, .257, .300 Savage, $86.55. Marlin 336 carbine, .30-30, .32 Special, $70.95. #336 Carbine .35 calibre, $80.80. Marlin 336A rifle .30-30, .32 Special, $83.95. #336A-35 calibre, $94.45. Marlin 336 ADL rifle .30-30, .32 Special, checkered, sling and swivels, $101.05. Trade-ins accepted, send Money Order or check. Free gun list and illustrated literature of any specified gun. Discounts to dealers. Lay-away plan. Mann's Sporting Goods Company, 100 Genesee Street, Utica, N.Y.

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* * *

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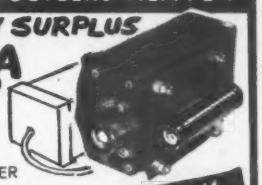

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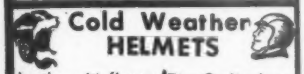

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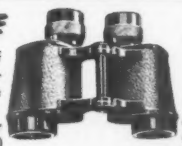

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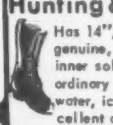

Has 14", sturdy, leather uppers & genuine, all-rubber shoe with felt inner sole. Designed to wear over ordinary shoes & protect feet from water, ice & snow. An excellent all-weather boot. **3.95**

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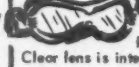

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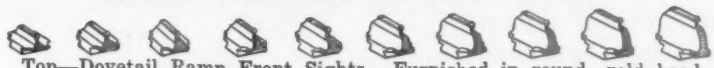

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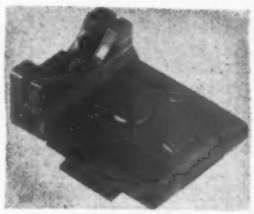

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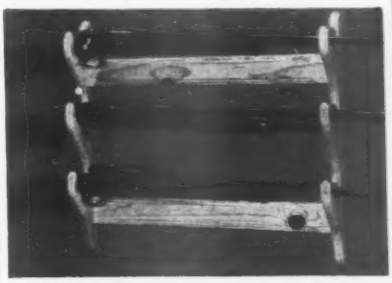

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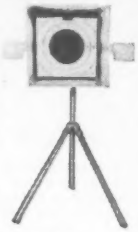

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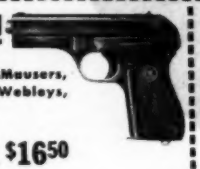

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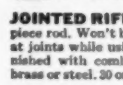

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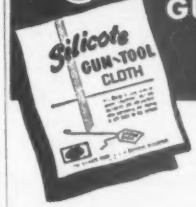

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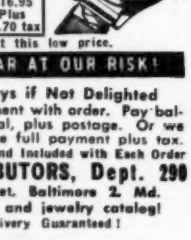

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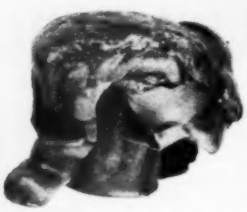

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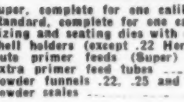

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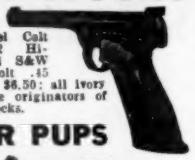

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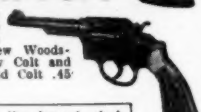

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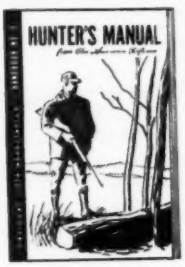

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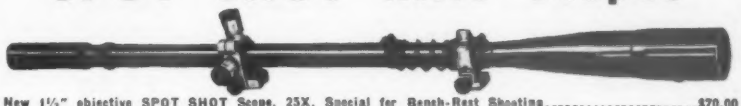

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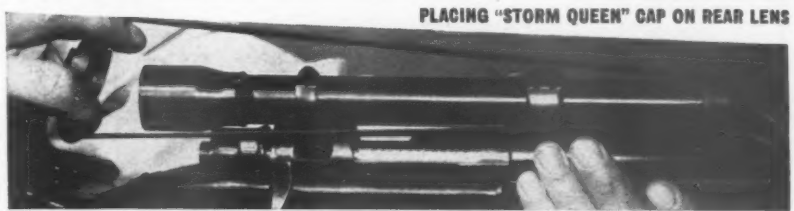

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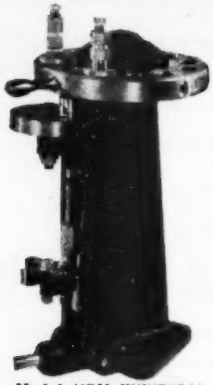

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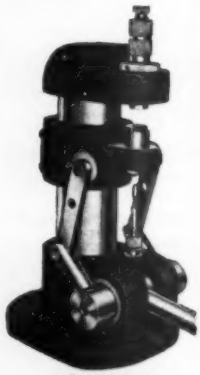

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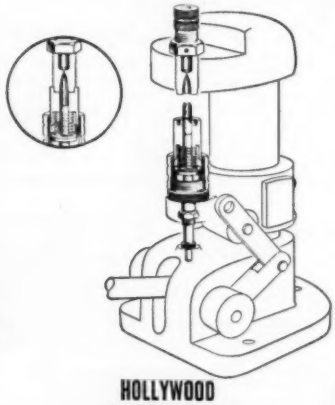

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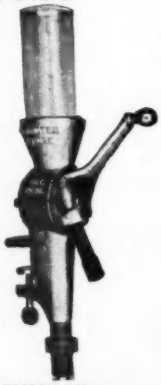

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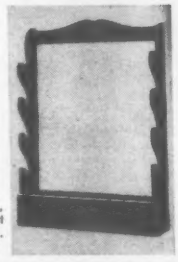

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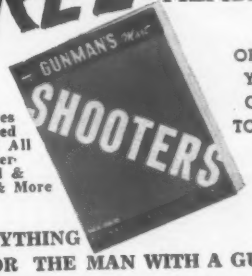

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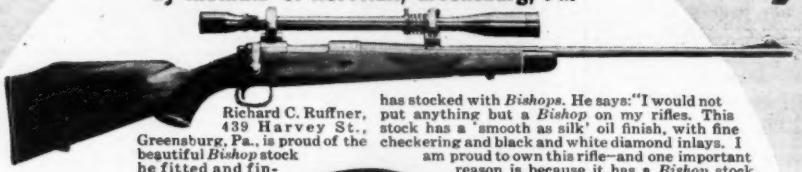

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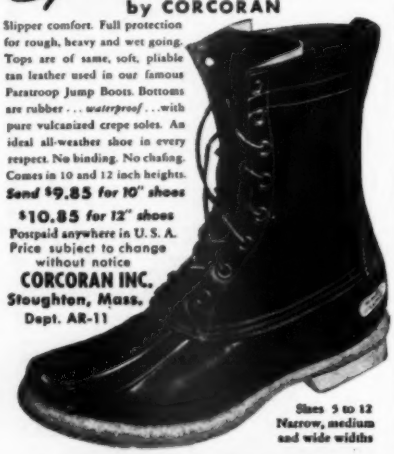

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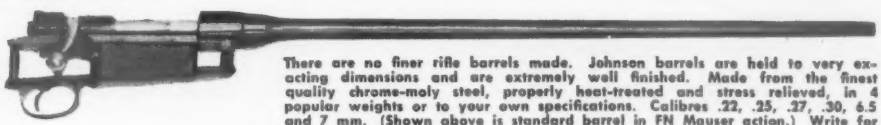

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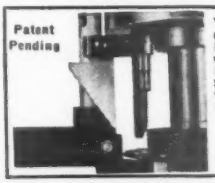

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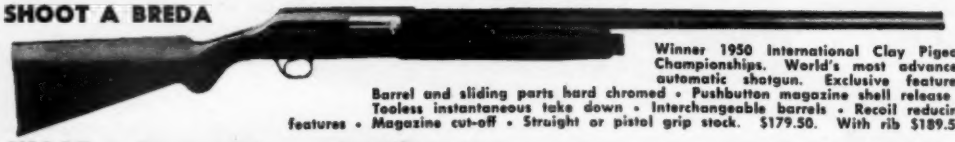

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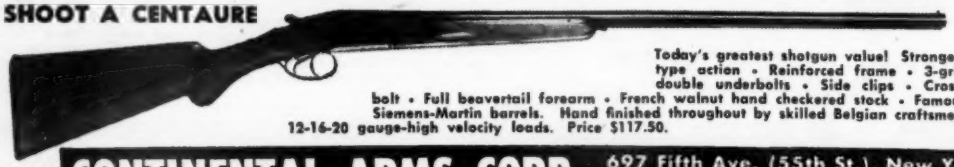

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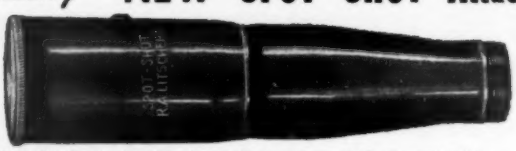

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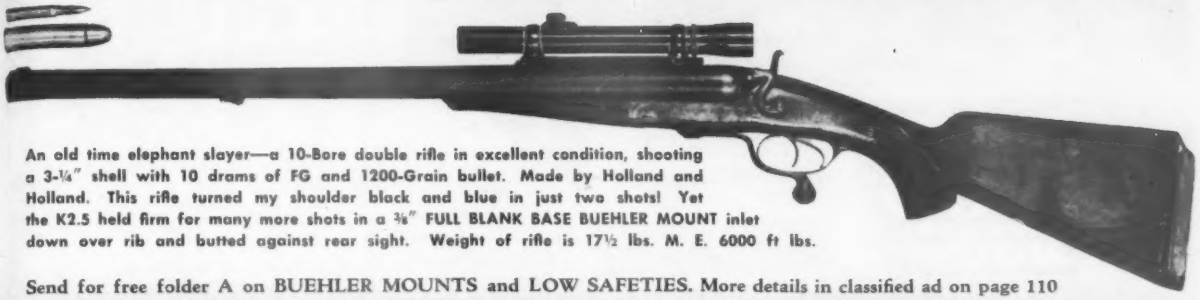

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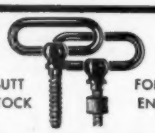

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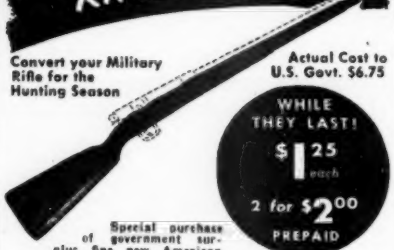

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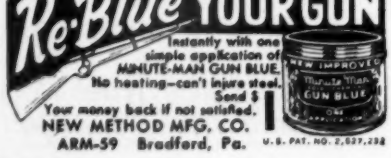

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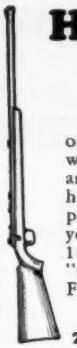

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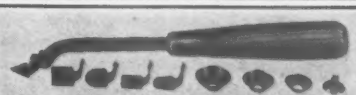

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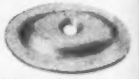

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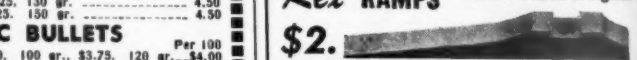

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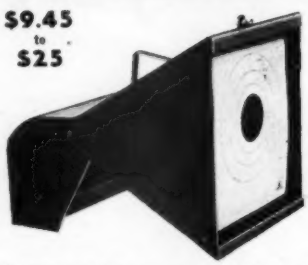

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